



## **PARTNERS ACADEMIC SUMMER SCHOOL 2025**

### **Syllabus for Dentistry**

#### **Subject Area**

This syllabus is for PARTNERS applicants seeking to progress to the degrees of:

- A206 BDS Dental Surgery
  - A207 BSc Honours Dental Therapy
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#### **Aims**

To allow students to demonstrate their potential to succeed in specified degree programmes by showing a grasp of entry-level subject-specific knowledge, understanding, cognitive and subject-specific skills.

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#### **Learning Outcomes**

A good knowledge and understanding of ...

- The anatomical structures of craniofacial complex.
- The anatomy of odontogenic structures.
- Oral microorganisms and common oral microbial diseases (dental caries and periodontitis).
- The pathological aspects and management of common dental diseases in clinical practice (including dental caries and periodontal diseases) .

The ability to apply this knowledge and critical understanding to...

- Discuss clinical problems
- Reading literature

Competence in...

- Basic study and teamworking skills relevant to dentistry
- Effective note-taking
- Small group discussion
- Application of foundational medical knowledge in stations-based practical
- Interactive hands-on session to develop manual dexterity of dentistry, and simulate dental procedures.
- Essay writing supported by appropriate literature

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## Summer School Syllabus

Session 1 Online live introduction to the summer school; meet the academic. There will be a short introduction to the BDS and BSc courses. The formative assessment will also be introduced including discussion of how to approach the assessment and essay writing skills.

Session 2 Introduction to anatomy and anatomy of the skull (Pre-recorded lecture)  
During this lecture, an introduction to anatomy and its relevance to the safe practice of dentistry will be explained. The basic terms used in anatomy will also be defined before describing the anatomical structure and function of the skull and the mandible.

Session 3 Anatomy of the oral cavity (pre-recorded lecture)  
The anatomical content of the oral cavity, and their features will be identified. The session would also aim to describe the structure and function of the tongue and salivary glands.

Session 4 Tooth anatomy and supporting structures (Pre-recorded lecture)  
The lecture aims to explain the general structure of teeth, including the basics of tooth morphology; the two dentition, tooth types and their function. It also briefly describes the microscopic anatomy of the tooth and supporting structures.

Session 5 Oral microorganisms (Pre-recorded lecture)  
In this lecture, the different types of oral microbial flora will be explained. This includes the microbial process of the most common dental diseases including dental caries and periodontitis.

Session 6 Medline literature search and referencing (Online via Canvas)  
It is essential that the students appreciate the information resources and how to access them. In this session they will learn how to use Medline, an important data base for scientific, medical and dental research. An introduction to the referencing style used within the School will also be given.

Session 7 Dental diseases and Human Health (In person lecture)  
The session aims to identify the most common dental diseases that have serious health burden and affecting quality of life of those affected.

Session 8 Craniofacial and dental anatomy and microbiology (In person practical)  
During this session, students will be rotated in several stations; examining the skull and dental structures, studying the histological slides of teeth and periodontium, and viewing some oral microorganisms in microscope.

Session 9 Dental caries (In-person lecture)  
This session aims to state the causes, pathogenesis, and clinical management of

dental caries.

#### Session 10 Periodontal diseases (In-person lecture)

In this lecture, identification of periodontal diseases will be explained. This includes their causes, classification, pathological basis, and management.

#### Session 11 Clinical problems solving in Dentistry (In person Small Group Discussion)

During this session students will be given numerous case scenarios of several dental diseases that already being taught in the course. They will work in groups to apply the basic science in these clinical problems and then propose the diagnosis and management to the group, justifying the choices.

#### Session 12 Aesthetic considerations when restoring teeth (In person practical-2hours)

This session will be led by Emma Lawley, one of our Lecturers in Dental Technology. This session gives an insight into aesthetic considerations for restoring teeth on completion of the stabilisation phase of treatment. During this session, there will be chance to develop skills in restoring a cavity in a posterior tooth with modelling clay and taking a shade for a restoration.

#### Session 13 Meet previous PARTNERS students.

An opportunity to meet previous PARTNERS students, discuss their experience of the summer school and being an undergraduate in the School of Dental Sciences

#### Session 14 Summer school round-up

Round-up of the summer school and opportunity to ask questions regarding the assessment.

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### Activities for Personal Study

- Lecture notes
- Reading the subject
- Canvas quizzes
- Research writing/ completion of summer school assessment
- Preparing for discussion of clinical problems

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### On-Campus Teaching:

Wednesday 2nd July (PM), Thursday 3rd July & Friday 4th July

### Online Teaching:

Monday 30th June & Tuesday 1st July

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**Formative Assessment Details**

1200 word essay

More details will be given during the event by your Academic Strand Lead.

**Hand-in Method**

Digital

**Assessment deadline**

Friday 11<sup>th</sup> July – 4pm