DENT90061 Plaque Related Diseases 1

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2011, Parkville This subject commences in the following study period/s: January, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 117 hours (69 contact and 48 non-contact) Total Time Commitment: Not available
Prerequisites:	12.5 points of human anatomy, 12.5 points of physiology and 12.5 points of biochemistry at 2nd year level.
Corequisites:	None.
Recommended Background Knowledge:	None.
Non Allowed Subjects:	N/A.
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Coordinator:	Assoc Prof Stuart Dashper
Contact:	Melbourne Dental School 4th floor, 720 Swanston Street Telephone: +61 9341 1500 Email: **enquiries@dent.unimelb.edu.au (mailto:enquiries@dent.unimelb.edu.au)** **http://www (http://www/)** .dent.unimelb.edu.au/
Subject Overview:	This subject will assist students develop knowledge regarding the common oral diseases that are caused by bacteria that are part of dental plaque. This is a highly integrated subject that brings together advanced concepts in chemistry, biochemistry, microbiology, pharmacology, anatomy and clinical practice that are relevant to the understanding of oral health and disease, especially dental caries. Students will learn about tooth structure and salivary composition down to the molecular level in both health and disease. They will learn about the oral microbiome and how these bacteria are related to health and disease and be guided through the clinical steps of diagnosis of dental caries. Students will engage in problem-based learning exercises simulating clinical situations to prepare them for dental clinical practice. They will participate in computer based learning exercises that will enable them to understand the pathogenic nature of some bacteria and the host immune response to both commensural and pathogenic bacteria. In addition the mechanisms of antimicrobial and antiplaque agents will be addressed.
Objectives:	On completion of this subject, the student will: **be competent in**: 1 discussing the aetiology, diagnosis and management of dental caries; 2 discussing the application of new preventive and therapeutic regimes for management of dental caries; 3 observational and organisational skills in obtaining data using modern biochemical procedures and in reporting the findings; 4 evaluating clinical manifestations of diseases in terms of disturbances of structure and function. **be competent in analysing**:

	1 the concepts of oral hard tissue chemistry and biochemistry; 2 the initiation and progression of dental caries at the molecular, microbiological, visual and clinical levels; 3 the principles of bacterial pathogenesis in oral infection; 4 the epidemiology and control of plaque-related disease including action of therapeutics and antiplaque agents; 5 the principles of oral microbial ecology; 6 the role of research in the development of rational treatments and preventive regimes; 7 the clinical relevance of oral microbiology, biochemistry and molecular biology.
Assessment:	PBL participation and assignment (flow diagram) on cariology throughout Teaching Blocks 1 and 2 (15%);4 x 15 minute class tests on cariology during Teaching Blocks 1 and 2 (10%);1 x 2 hour written exam on cariology at the end of Teaching Block 2 (60%);Practical/CAL book on cariology to be submitted at the end of Teaching Block 2 (15%).
Prescribed Texts:	Fejerskov O and Kidd E 2008 Dental Caries - The Disease and its Clinical Management, 2nd ed, Munksgaard
Recommended Texts:	None.
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Students should: 1 be able to access new knowledge from different sources, analyse and interpret it in a critical manner; 2 have developed skills in effective communication with teaching staff and peers; 3 have developed effective organisational skills and time management; 4 be able to identify and address their own learning needs; 5 develop skills in analysing and evaluating experimental and clinical data.
Related Course(s):	Doctor of Dental Surgery