

ORAL10004 Oral Health Sciences 1B

Credit Points:	18.75
Level:	1 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 104 hours of lectures, seminars, practical work and computer assisted learning Total Time Commitment: Not available
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
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:	Dr Samantha Byrne
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Subject Overview:	<p>This subject comprises four modules:</p> <p><i>Anatomy and Oral Histology:</i> Microscopic structure of human oral tissues; mucosa, enamel, dentine, pulp, cementum, periodontium, alveolar bone, salivary glands, TMJ; odontogenesis and embryology; the structure and function of the nerve and vascular supply of the head and neck; lymphatic drainage of the head; and the pterygomandibular space.</p> <p><i>Physiology:</i> The physiology of the nervous, respiratory, circulatory, digestive, endocrine and musculo-skeletal systems; the neurophysiology of pain and other sensory processes as well as taste and swallowing (deglutition).</p> <p><i>Pathology:</i> Inflammation and infections; defense mechanisms, immunology, healing and repair; pathological conditions causing abnormal bleeding; neoplasia and cardio-vascular disease; disorders of the nervous system and endocrine system; and infectious diseases and allergies.</p> <p><i>Microbiology:</i> An introduction to chemistry and its relevance to human mineralized tissues; the role of microorganisms in human infection; bacteriology of dental plaques, the microbiology associated with dental caries and periodontal disease; asepsis and infection control in dental practice; aspects of virology including hepatitis and human immunodeficiency virus.</p>
Objectives:	<p>On completion of this subject, students should:</p> <p>Comprehend:</p> <ul style="list-style-type: none"> # The terminology of anatomy, biochemistry, physiology, histology, oral anatomy, and microbiology; # The blood, lymphatic, and nerve supply to tissues in the head and neck;

	<ul style="list-style-type: none"> # The principal clinical applications of anatomy, biochemistry, physiology, histology, oral anatomy, and microbiology to care of the dental patient; # The characteristics of the microbial ecology of the oral cavity; # The process of odontogenesis, the formation of the periodontium and the development of oro-dental structures; # The principles of the aetiology and prevention of common oral diseases; # The nature of dental caries and periodontal disease and the mechanisms of primary prevention and technical intervention to restore tooth function; and # The skills and knowledge to implement clinical preventive procedures. <p>Demonstrate:</p> <ul style="list-style-type: none"> # An ability to recognise healthy oral tissues and the clinical appearance of dental caries and periodontal disease; and # An ability to plan work and utilise time effectively.
Assessment:	Assessment includes: One 3-hour written examination at the end of Semester 2 (70%); 5 multiple choice and true/false answer quizzes to be completed via LMS (30%). An overall mark of 50% is required to pass this subject.
Prescribed Texts:	None
Recommended Texts:	<ul style="list-style-type: none"> # Essentials of Oral Histology and Embryology: A Clinical Approach (JK Avery), 2nd edn, Mosby, 2000 # A Colour Atlas and Text of Oral Anatomy, Histology and Embryology (BKB Berkovitz, GR Holland and BJ Moxham), 2nd ed, Wolfe Medical, 1992 # Functional Histology (PR Wheater, HG Burkitt and VG Daniels), 2nd edn, Churchill Livingstone, 1987
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
Related Course(s):	Bachelor of Oral Health