

511-224 Oral Health Sciences 2a

Credit Points:	37.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: 192 hours of lectures, tutorials, practical activities - including workshops and dissection - and computer assisted learning (CAL) Total Time Commitment: Not available
Prerequisites:	Successful completion of all Year 1 subjects.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p>
Coordinator:	Professor Michael Burrow
Subject Overview:	<p>This subject comprises three modules:</p> <p><i>Physiology:</i> Physiological integration, the interface between tissue cells and the internal environment, biophysics of excitable and contractile tissue, the physiology of mammalian organ-systems: circulatory, respiratory, muscular, renal and digestive; the coordination of bodily functions by hormonal and neural mechanisms. The Physiology lectures will incorporate active interaction between students and lecturers using personal response system (PRS) clickers to answer questions during lectures.</p> <p><i>Biochemistry:</i> The thermo-dynamics and homeostasis of living systems and biochemical adaption; the structure, function and metabolism of proteins, carbohydrates, lipids and nucleic acids; basic principles of gene structure and expression and metabolic disorders with a genetic basis; and structure and function of immuno-globulins.</p> <p><i>Topographical Anatomy:</i> The structure and organisation of the head and neck, including development and functional perspectives; practical dissections of the head and neck region; vocationally-relevant clinical anatomy for dentists.</p>
Assessment:	(1) Physiology: Two 45-minute examination at mid-semester, one 2-hour written examination at the end of the semester, a component of ongoing assessment related to practical classes, effective PRS participation and contributions; and tasks related to computer-aided learning activities. (2) Biochemistry: One 2-hour written examination at the end of the semester; assessment of practical work throughout the semester. (3) Topographical Anatomy: One 2-hour written examination at the end of the semester and one 15-minute practical test during the semester. A pass in each of (1), (2) and (3) is required for an overall pass in this subject.
Prescribed Texts:	None
Recommended Texts:	Topographical Anatomy :

	<p>Acland R 2004 <i>Acland's DVD Atlas of Human Anatomy</i> , Lippincott, Williams & Wilkins</p> <p>Rohen JW and Yokochi CL 1999 <i>Colour Atlas of Anatomy: A Photographic Study of the Human Body</i> 4th ed, Igaku-Shoin</p> <p>Sinnatamby CS 1999 <i>Last's Anatomy</i> 10th ed, Churchill Livingstone</p> <p>Biochemistry :</p> <p>Nelson DL and Cox MM 2004 <i>Lehinger Principles of Biochemistry</i> , 4th ed, Worth</p> <p>OR</p> <p>Berg JM, Tymoczko JL and Stryer L 2002 <i>Biochemistry</i> 5 th ed, Freeman</p> <p>Physiology :</p> <p>Sherwood L 2003 <i>Human Physiology</i> , 5th ed, Thomson Learning</p>
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:	<ul style="list-style-type: none"> # Observation and organisation # Investigation # Analysis and evaluation of experimental data # Documenting research findings
Links to further information:	http://www.unimelb.edu.au/HB/2008/subjects/511-224.html
Related Course(s):	Bachelor of Dental Science