

513-211 Cardiorespiratory Systems

Credit Points:	25.000
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: 62 hours lectures, 40 hours problem-based learning, 20 hours practical classes Total Time Commitment: Students will need to allow time for self-directed learning. The following hours are given as minimum requirements: 1 hour pre/post reading for lectures, 2 hours per hour of tutorial sessions and 2 hours extra per week for practical classes.
Prerequisites:	This subject is not available as a single subject. Students must be currently enrolled in the Bachelor of Physiotherapy to undertake this subject.
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:	Ms L Browning
Subject Overview:	<p>The objectives of this subject are to enable the student to gain an understanding of the integrated function of the cardiorespiratory system, the mechanisms and control of gas exchange and acid-based metabolism, cardiorespiratory homeostatic and adaptive mechanisms in humans and the mechanisms of pathological processes leading to disease of the cardiorespiratory system and cardiorespiratory responses to exercise.</p> <p>Content includes normal anatomy and development of the cardiovascular and respiratory systems, electrophysiology of the heart, measurement and assessment of cardiac and respiratory function, the principles of physics relating to blood flow, respiration and cardiorespiratory investigations, the mechanisms of ventilation, gas exchange and oxygen carriage in the lungs, at the periphery and at a cellular level, acid-base homeostasis, mechanisms of action of endogenous messengers and drugs on the cardiac and respiratory systems, mechanisms of blood pressure control and its disturbance.</p>
Assessment:	Mid-semester quiz (15%); problem-based learning tutor assessment (10%); end of semester examinations up to six hours (60%); and practical examination (15%).
Prescribed Texts:	None
Recommended Texts:	<p>Recommended Texts:</p> <ul style="list-style-type: none"> # Human Physiology (R Rhoades and R Pflanzer), 3rd edn, Saunders, 1996 # Exercise Physiology: Theory and Application to Fitness and Performance (SK Powers and ET Howley), 2nd edn, WC Brown and Benchmark, 1994
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 Physiotherapy