516-304 Functional and Applied Anatomy

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 48 hours contact time involving approximately equal weighting of lectures and practical classes. Precise subject details will be made known at the commencement of the subject Total Time Commitment: 120 hours
Prerequisites:	Two of anatomy 516-204, 516-207, 516-308.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
Coordinator:	Dr P Barker
Subject Overview:	Upon completion of this subject, students should have an appreciation of: # the tissues and structures that comprise the musculoskeletal system - connective tissues, muscle, fascia and tendon, ligament and nerve and their response to normal and abnormal stress and strain; # the functional and applied anatomy of the body's major joint complexes; including the joints of the vertebral column, shoulder, elbow complex, wrist and hand, pelvis, hip, knee, ankle and foot; # a description of motion, including an examination of the forces acting on the body's motion segments in normal activities and the principles underlying gait and locomotion; # anatomical changes that accompany growth and development, skeletal traits important in the identification of age, sex, stature and race. The subject provides detailed information on connective tissues, muscle, tendon, ligament and nerve, and their response to normal and abnormal stress and strain; the forces acting across synovial joints and methods of measuring these forces; the applied anatomy of vision, hearing, taste and vocalisation and the cranial nerve pathways involved, the applied anatomy of the mandible and temporomandibular joint; normal and abnormal movement patterns, and the principles underlying gait and locomotion; anthropometric techniques; skeletal traits important in human identification; and dissection of selected joint structures.
Assessment:	Ongoing assessment incorporating one 50-minute quiz and reports from practical classes throughout the semester (20%); dissection project during the semester (35%); a 2-hour written examination in the examination period (45%).
Prescribed Texts:	The Mechanics and Pathomechanics of Human Movement (CA Oatis), Lippincott, Williams and Wilkins, 2004
Breadth Options:	This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008. This subject or an equivalent will be available as breadth in the future.

	Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available. 2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Generic skills include capacity for independent study, rational inquiry and self-directed learning; ability to analyse problems; oral and written communication skills; time management skills; teamwork in interpretation and analysis of new information.
Notes:	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.
Related Course(s):	Bachelor of Arts and Bachelor of Science Bachelor of Arts and Sciences Bachelor of Science