

Human Structure and Function

Year and Campus:	2014																																
Coordinator:	Dr. Jason Ivanusic, Department of Anatomy and Neuroscience																																
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Overview:	<p>The Human Structure and Function Major will explain how the human body works, based on a deep understanding of the relationship between physiology and anatomy. The subjects are structured so that the anatomy (structure) and physiology (function) of the human body are taught in carefully integrated units that also introduce elements from pathology, pharmacology and zoology as relevant. It will suit students entering: medical and health related sciences, postgraduate research work in applied anatomy and physiology; teaching and research in University departments and in hospitals; with pharmaceutical companies; in media liaison, consultancies and scientific journalism.</p>																																
Learning Outcomes:	<p>By the end of this major a student should:</p> <ul style="list-style-type: none"> # appreciate the terminology of topographic anatomy; the principles relating to each of the following types of anatomical structure: skin, fascia and skeletal muscles, bones and joints, vessels, nerves and viscera; the organisation of the body into regions and the trunk into cavities; # know the essential factual information regarding the anatomical structures which form the boundaries and contents of the back and limbs, the tissues and structures that comprise the musculoskeletal system and their response to normal and abnormal stress and strain; and the key components of the respiratory, cardiovascular, gastrointestinal, and genitourinary systems; # appreciate the functional and applied anatomy of the body's major joint complexes; including a description of motion and the forces acting on the body's motion segments in normal activities; the principles underlying gait and locomotion; # develop observational and organisational skills to identify and interpret exposed anatomical structures and regions; communication skills (written and oral) to describe the body; skills in the manipulation of anatomical structures (with dissecting instruments); and # appreciate the common occurrence of anatomical variation; the scientific basis of knowledge of structure. 																																
Structure & Available Subjects:	Completion of 50 points of study at Level 3.																																
Subject Options:	<p>Both of</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ANAT30007 Human Locomotor Systems</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>ANAT30008 Viscera and Visceral Systems</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus two electives selected from</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>NEUR30005 Developmental Neurobiology</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>CEDB30003 Developmental Biology</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>OPTO30007 Visual Neuroscience</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>PATH30001 Mechanisms of Human Disease</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>PHYS30005 Muscle and Exercise Physiology</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>PHYS30001 Cardiovascular Health: Genes & Hormones</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	ANAT30007 Human Locomotor Systems	Semester 1	12.50	ANAT30008 Viscera and Visceral Systems	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	NEUR30005 Developmental Neurobiology	Semester 2	12.50	CEDB30003 Developmental Biology	Semester 2	12.50	OPTO30007 Visual Neuroscience	Semester 2	12.50	PATH30001 Mechanisms of Human Disease	Semester 1	12.50	PHYS30005 Muscle and Exercise Physiology	Semester 1	12.50	PHYS30001 Cardiovascular Health: Genes & Hormones	Semester 2	12.50
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	NEUR30003 Principles of Neuroscience	Semester 1	12.50
	NEUR30002 Neurophysiology: Neurons and Circuits	Semester 1	12.50
	PHYS30008 Frontiers in Physiology	Semester 2	12.50
	PATH30002 Techniques for Investigation of Disease	Semester 1	12.50
	BIOM30003 Biomedical Science Research Project	Summer Term, Semester 1, Semester 2	12.50
Related Course(s):	Bachelor of Biomedicine Bachelor of Science		