## PHTY90027 Neurosciences

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville
	This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 36 hours of problem based learning tutorials and inquiry seminars. Total Time Commitment: Students are expected to undertake a number of hours of self directed learning in this subject. Approximately 80 hours of self directed learning is suggested.
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	None
Coordinator:	Dr Kimberly Miller
Contact:	Dr Kimberly Miller
Subject Overview:	This subject offers students an opportunity to participate in an advanced macroscopic and microscopic study of the human nervous system. Theoretical neuroanatomy, neurophysiology, developmental neuroscience, and neuropsychology will be integrated with clinical neurology.
Objectives:	Refer to Specific Skills as outlined in Generic Skills.
Assessment:	2 hour examination (40%), class presentation (30%), written assignment 3,000 words (30%)
Prescribed Texts:	Kandel, ER, Schwartz, J.H. and Jessell, T (2000) Principles of Neural Sciences, 4th Edition, New York: Elsevier
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> <li>Generic Skills:</li> <li>On completion of the subject, students will be expected to be able to demonstrate: <ul> <li># The ability to evaluate and synthesise basic science research and professional literature and apply this information to clinical situations</li> <li># A capacity to articulate their knowledge and understanding in oral and written presentations</li> </ul> </li> <li>Specific Skills: <ul> <li>On completion of the subject, students will be expected to be able to demonstrate:</li> <li># The developmental processes in the nervous system</li> <li># Sensorimotor systems and the processing of sensory information</li> <li># The programming and execution of movement</li> <li># Mechanisms of plasticity, learning and recovery of function after injury</li> <li># Higher cortical functions and their disorders following brain injury</li> <li># Application of neuroscience to clinical situations</li> </ul> </li> </ul>

Links to further information:	http://www.physioth.unimelb.edu.au/programs/pgrad/index.html
Related Course(s):	Doctor of Clinical Physiotherapy