

# 513-668 Paediatric Biosciences

**Credit Points** 12.5

**Semester** 2

**Prerequisites / Corequisites** Nil

**Coordinator** Ms Susan Rogers

**Contact** 36 hours of lectures and problem-based learning tutorials

**Non Contact Requirement** Students are expected to undertake a number of hours of self directed learning in this subject. Approximately 70 hours of self directed learning is suggested.

**Description** This subject includes advanced study of the structure and function of the body systems in relation to movement development from conception to infancy. Normal and pathological development in the nervous, cardiorespiratory and musculoskeletal systems will be explored by students through clinical case studies and review of literature. Study areas are developmental neuroscience, neonatal physiology and embryology.

**Assessment** Class presentation (40%), written assignments 4 x 1000 words (60%).

**Prescribed Texts** Nil

## Subject Objectives

- **Generic:** On completion of the subject, students will have had the opportunity to develop the following generic skills:

- \* The ability to evaluate and synthesise scientific research and professional literature and apply this information to clinical situations
- \* Demonstrate the ability to articulate knowledge and understanding in oral and written presentations
- \* A capacity for independent thought, critical enquiry and self directed learning.

- **Specific:** On completion of the subject, students will have had the opportunity to develop the following specific skills:

- \* Identify and interpret the structure and function of body systems in relation to movement development from conception to infancy
- \* Acquire sound knowledge of how development of body systems influence muscle and joint action, and how the mechanics of muscle and joint action interact for functional movements
- \* Understand factors that impact on erect stance and the mechanics of normal gait
- \* Related developmental neuroscience, neonatal physiology and embryology to clinically important diagnostic and treatment procedures
- \* Apply paediatric bioscience theory to selected neurological, cardiorespiratory or musculoskeletal clinical scenarios