

## PHTY90069 Ultrasound Imaging for Physiotherapists

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| <b>Credit Points:</b>                    | 12.50  |
| <b>Level:</b>                            | 9 (Graduate/Postgraduate)  |
| <b>Dates &amp; Locations:</b>            | 2011, Parkville<br>This subject commences in the following study period/s:<br>July, Parkville - Taught on campus.<br>On campus tutorials/practical sessions  |
| <b>Time Commitment:</b>                  | Contact Hours: Three 2-day blocks of lectures and practical sessions (6 hours per day) throughout the semester Total Time Commitment: Approximately 70 hours of self-directed learning is expected for this subject  |
| <b>Prerequisites:</b>                    | None   |
| <b>Corequisites:</b>                     | None   |
| <b>Recommended Background Knowledge:</b> | None   |
| <b>Non Allowed Subjects:</b>             | None   |
| <b>Core Participation Requirements:</b>  | None   |
| <b>Coordinator:</b>                      | Dr Margaret Sherburn   |
| <b>Contact:</b>                          | Dr Adam Leigh Bryant   |
| <b>Subject Overview:</b>                 | This subject covers the theoretical and physical principles of ultrasound production, image processing and the components of ultrasound equipment. The advantages and limitations of ultrasound in clinical practice, comparison with other forms of imaging, data management and safety issues will be studied. Students will develop an advanced level of technical skills in ultrasound scanning, clinical anatomy, and measuring and interpreting ultrasound images in a variety of anatomical areas. There is a strong emphasis on the research evidence for the use of ultrasound in physiotherapy practice for patient assessment and treatment. Ultrasound imaging for various regions of the body is undertaken within practical sessions.  |
| <b>Objectives:</b>                       | On completion of this subject, students will have: <ul style="list-style-type: none"> <li># Knowledge of the theoretical and physical principles of ultrasound production, image processing and the components of ultrasound equipment</li> <li># An understanding of the advantages and limitations of ultrasound in clinical practice, and comparison with other forms of imaging</li> <li># An understanding of data management and safety issues associated with ultrasound equipment</li> <li># Technical skills in ultrasound scanning, clinical anatomy, measuring and interpreting ultrasound images in a variety of anatomical areas</li> <li># A knowledge of research evidence for the use of ultrasound in physiotherapy practice for both patient assessment and treatment</li> </ul> |
| <b>Assessment:</b>                       | 1,000 word assignment (my mid-semester) 25%<br>3,000 word assignment (end of semester) 60%<br>Practical skills assessment 15%  |
| <b>Prescribed Texts:</b>                 | None   |
| <b>Breadth Options:</b>                  | This subject is not available as a breadth subject.  |
| <b>Fees Information:</b>                 | Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>  |

**Generic Skills:**

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

- # Advanced knowledge, clinical decision making and analytical skills
- # The ability to extend their written communication skills
- # A capacity to tackle unfamiliar problems and develop the ability to plan their work
- # A capacity for self-directed learning and the motivation for life-long independent learning