

## MC-CU Master of Clinical Ultrasound

<b>Year and Campus:</b>	2016 - Hawthorn
<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>
<b>Level:</b>	Graduate/Postgraduate
<b>Duration &amp; Credit Points:</b>	150 credit points taken over 18 months full time. This course is available as full or part time.
<b>Coordinator:</b>	Associate Professor Colin Royse and Associate Professor Alistair Royse
<b>Contact:</b>	<p><b>Ultrasound Education Group</b></p> <p>Currently enrolled students:</p> <ul style="list-style-type: none"> <li># General information: <a href="http://www.commercial.unimelb.edu.au/mclinicalultrasound/">http://www.commercial.unimelb.edu.au/mclinicalultrasound/</a> (<a href="http://www.commercial.unimelb.edu.au/mclinicalultrasound/">http://www.commercial.unimelb.edu.au/mclinicalultrasound/</a>)</li> <li># Email: <a href="mailto:support@heartweb.com">support@heartweb.com</a> (<a href="mailto:support@heartweb.com">mailto:support@heartweb.com</a>)</li> </ul> <p>Future students:</p> <ul style="list-style-type: none"> <li># Further information: <a href="http://www.heartweb.com.au/">http://www.heartweb.com.au/</a> (<a href="http://www.heartweb.com.au/">http://www.heartweb.com.au/</a>)</li> <li># Email: <a href="mailto:support@heartweb.com">support@heartweb.com</a> (<a href="mailto:support@heartweb.com">mailto:support@heartweb.com</a>)</li> </ul>
<b>Course Overview:</b>	<p>This distance program will be offered to practicing medical professionals who wish to obtain further expertise in medical ultrasound for clinical practice. It is part of the nested program of courses related to the use of clinical Ultrasound. It also includes the Graduate Certificate and Graduate Diploma in Clinical Ultrasound (which will be a pre-requisites). The course is designed to provide the knowledge-base necessary for diagnostic-level performance of echocardiography and interpretation; surface ultrasound uses such as ultrasound guided procedures and nerve blocks; and other medical specialist specific ultrasound applications such as vascular ultrasound examination. The aim is to provide advanced knowledge to specialist craft groups to facilitate use of ultrasound relevant to their specialty.</p>
<b>Learning Outcomes:</b>	<p><b>A Knowledge</b>  Graduates of the Master of Clinical Ultrasound Degree will have acquired:</p> <ol style="list-style-type: none"> <li>1 a body of knowledge that includes the understanding of recent developments in a discipline and/or area of professional practice in the discipline of Clinical Ultrasound</li> <li>2 knowledge of research principles and methods applicable to learning in the discipline of Clinical Ultrasound</li> </ol> <p><b>B Skills</b>  Graduates of the Master of Clinical Ultrasound Degree will have developed:</p> <ol style="list-style-type: none"> <li>1 cognitive skills to demonstrate mastery of theoretical knowledge of clinical ultrasound and to reflect critically on theory and professional practice or scholarship</li> <li>2 cognitive, technical and creative skills to investigate, analyse and synthesise complex information, problems, concepts and theories and to apply established the practice of clinical ultrasound</li> <li>3 cognitive, technical and creative skills to generate and evaluate complex ideas concepts at an abstract level</li> <li>4 communication and technical research skills to justify and interpret theoretical propositions, methodologies, conclusions and professional decisions to specialist and non-specialist audiences</li> <li>5 technical and communication skills to design, evaluate, implement, analyse, theorise about developments that contribute to professional practice or scholarship</li> </ol> <p><b>C Application of knowledge and skills</b>  Graduates of the Master of Clinical Ultrasound Degree will demonstrate the application of knowledge &amp; skills:</p> <ol style="list-style-type: none"> <li>1 with creativity and initiative to new situations in professional practice and/or for further learning</li> <li>2 with high level personal autonomy and accountability</li> </ol>

	3 to plan and execute a substantial capstone experience to new situations in professional scientific practice and/or for further learning																																													
<b>Course Structure &amp; Available Subjects:</b>	To satisfy the requirements of the Master of Clinical Ultrasound must successfully complete a total of 150 points. Along the way they can complete the Postgraduate Certificate and Postgraduate Diploma in Clinical Ultrasound.																																													
<b>Subject Options:</b>	<p><b>1. Core Subjects</b></p> <p>These subjects will be completed as part of the Graduate Certificate in Clinical Ultrasound</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MEDI90049 Principles of Ultrasound Heart Scan</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MEDI90054 Ultrasound Guided Procedures</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MEDI90050 Doppler Echocardiography</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MEDI90051 Ventricular Function</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p><b>2. Core Subjects</b></p> <p>These subjects will be completed as part of the Graduate Diploma in Clinical Ultrasound</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MEDI90056 Advanced Anatomy and Doppler Analysis</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MEDI90057 Advanced Valve and Aortic Pathology</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MEDI90058 Applications of Echocardiography</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MEDI90059 Advanced Echocardiography Interpretation</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p><b>3. Core Subjects</b></p> <p>These subjects will be completed as part of the Master of Clinical Ultrasound.</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MEDI90046 3-D Echocardiography &amp; New Technologies</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MEDI90047 Congenital,Obsetric&amp; Medical Conditions</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MEDI90048 Advanced Case Studies Practicum</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MEDI90083 Research Methods &amp; Ultrasound Literature</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	MEDI90049 Principles of Ultrasound Heart Scan	Semester 1, Semester 2	12.50	MEDI90054 Ultrasound Guided Procedures	Semester 1, Semester 2	12.50	MEDI90050 Doppler Echocardiography	Semester 1, Semester 2	12.50	MEDI90051 Ventricular Function	Semester 1, Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	MEDI90056 Advanced Anatomy and Doppler Analysis	Semester 1, Semester 2	12.50	MEDI90057 Advanced Valve and Aortic Pathology	Semester 1, Semester 2	12.50	MEDI90058 Applications of Echocardiography	Semester 1, Semester 2	12.50	MEDI90059 Advanced Echocardiography Interpretation	Semester 1, Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	MEDI90046 3-D Echocardiography & New Technologies	Semester 1, Semester 2	12.50	MEDI90047 Congenital,Obsetric& Medical Conditions	Semester 1, Semester 2	12.50	MEDI90048 Advanced Case Studies Practicum	Semester 1, Semester 2	12.50	MEDI90083 Research Methods & Ultrasound Literature	Semester 1, Semester 2	12.50
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<b>Entry Requirements:</b>	<ol style="list-style-type: none"> <li>In order to be considered for entry, applicants must have completed: <ul style="list-style-type: none"> <li>a Doctor of Medicine or Bachelor of Medicine/Bachelor of Surgery or equivalent qualification. Meeting this requirement does not guarantee selection.</li> </ul> </li> <li>In ranking applications, the Selection Committee will consider <ul style="list-style-type: none"> <li>prior academic performance; and</li> <li>the professional experience.</li> </ul> </li> <li>The Selection Committee may seek further information to clarify any aspect of an application in accordance with the Academic Board <b>rules</b> (<a href="http://about.unimelb.edu.au/__data/assets/pdf_file/0007/1413727/Use-of-Selection-Instruments-Rules-of-the-Acdemic-Board-23-March-2015.pdf">http://about.unimelb.edu.au/__data/assets/pdf_file/0007/1413727/Use-of-Selection-Instruments-Rules-of-the-Acdemic-Board-23-March-2015.pdf</a>) on the use of selection instruments.</li> <li>Applicants are required to satisfy the university's English language requirements for postgraduate courses. For those applicants seeking to meet these requirements by one of the standard tests approved by the Academic Board, performance <b>band 7</b> (<a href="http://about.unimelb.edu.au/academicboard/resolutions">http://about.unimelb.edu.au/academicboard/resolutions</a>) is required.</li> </ol>																																													

<b>Core Participation Requirements:</b>	<p>&lt;p&gt;For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.&lt;/p&gt; &lt;p&gt;It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p>
<b>Further Study:</b>	None
<b>Graduate Attributes:</b>	<p>The Master in Clinical Ultrasound selects students who have extensive prior knowledge of medicine, and the pathophysiology and treatment options relevant to the use of medical ultrasound. Following completion of the course, the graduates will have a diagnostic level understanding for echocardiography including transoesophageal echocardiography. They will have acquired additional knowledge within their discipline, and will be familiar with methods of applying ultrasound related knowledge in their clinical practice. There will be a high consistency of knowledge between students within each craft group or discipline. Interactive tutorials and case reviews will allow students to articulate their knowledge and test the capability for independent critical thought. By the end of the course, there will be testing of interpretation and problem-solving skills.</p>
<b>Professional Accreditation:</b>	None
<b>Generic Skills:</b>	<p>Students will:</p> <ul style="list-style-type: none"> <li># Enhance time utilisation</li> <li># Improve written skills and problem solving skill</li> </ul>
<b>Links to further information:</b>	www.heartweb.com.au