

## MEDI90056 Advanced Anatomy and Doppler Analysis

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	This subject is not offered in 2014. This subject will be taught off-campus (online) Course materials will be distributed via mail to students. Administration is via e-mail.
<b>Time Commitment:</b>	Contact Hours: Off-campus, online Total Time Commitment: 120 hours
<b>Prerequisites:</b>	To enrol in this subject, you must be admitted in Post Graduate Diploma in Clinical Ultrasound. This subject is not available for students admitted in any other courses.
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Contact:</b>	The University of Melbourne Ultrasound Education Group Department of Surgery Level 6 Centre for Medical Research The Royal Melbourne Hospital Parkville, VIC 3050 Telephone: +61 3 8344 5673 Fax: +61 3 8344 5193 Email : <a href="mailto:echo-info@unimelb.edu.au">echo-info@unimelb.edu.au</a> Website : <a href="http://www.heartweb.com.au">www.heartweb.com.au</a> ( <a href="http://www.heartweb.com.au">http://www.heartweb.com.au</a> )
<b>Subject Overview:</b>	This subject will provide additional advanced material on anatomy and doppler analysis, which would not have been covered at the certificate level. Topics include: <ol style="list-style-type: none"> <li>1 Role of Echocardiography in Perioperative and Critical Care Environments</li> <li>2 Safety of Ultrasound and TOE</li> <li>3 Cleaning and Disinfection of Ultrasound Probes</li> <li>4 Anatomy-Coronary Vessels</li> <li>5 Additional TOE Views and anatomical Variants</li> <li>6 Anatomy-Other Structures</li> <li>7 Estimation of Intraventricular and PA Pressures</li> <li>8 Normal Doppler Values</li> <li>9 Calculations Workshop</li> <li>10 Principles of PISA</li> <li>11 Paediatric and Obstetric Conditions</li> </ol>
<b>Learning Outcomes:</b>	The completion of the subject, students should: <ol style="list-style-type: none"> <li>1 Understand the role of echocardiography in perioperative and critical care environments</li> <li>2 Understand the safety of ultrasound and transoesophageal echocardiography</li> </ol>

	<ul style="list-style-type: none"> <li>3 Understand cleaning and disinfection of probes</li> <li>4 Understand the anatomy of coronary vessels</li> <li>5 Understand additional views and anatomical variants</li> <li>6 Estimate intra-ventricular and pulmonary artery pressures</li> <li>7 Understand principles of PISA</li> <li>8 Understand paediatric and obstetric conditions</li> <li>9 Review 20 echocardiography studies</li> </ul>
<b>Assessment:</b>	<p>1. 80% of assessment: one open- book multiple-choice examination consisting of 50 questions which are likely to include case study diagnoses and image interpretation and measurement. Students will have 1 week to complete the examination during the assessment period at the end of each semester. 2. 20% of assessment: completion of self assessment modules at the end of each tutorial, progressively through the semester. These are completed in the workbooks issued to students and it is a requirement that these workbooks are signed and returned for assessment.</p>
<b>Prescribed Texts:</b>	Royse C, Donnan G, Royse A. Pocket Guide to Perioperative and Critical Care Echocardiography. 2006; McGraw-Hills
<b>Recommended Texts:</b>	Other materials will be provided as a package of readings, PowerPoint presentations and case studies.
<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>
<b>Generic Skills:</b>	<ul style="list-style-type: none"> <li># Enhance time utilisation</li> <li># Improve written skills and problem solving skill</li> </ul> <p>All students are expected to have access to a computer that can operate a Windows platform or simulation.</p>
<b>Links to further information:</b>	<a href="http://www.heartweb.com.au">http://www.heartweb.com.au</a>
<b>Notes:</b>	<p>This subject will be available to part-time and full-time students</p> <p>This subject is not available to Commonwealth Supported students</p> <p>This subject is not available as breadth</p> <p>Administration is via e-mail.</p>
<b>Related Course(s):</b>	<p>Master of Clinical Ultrasound</p> <p>Postgraduate Diploma in Clinical Ultrasound</p>