MASTER OF MEDICAL ULTRASOUND

The Master of Medical Ultrasound is a coursework degree designed to facilitate entry into the medical ultrasound profession. The degree prepares graduates capable of assuming practice as a general sonographer in the public and private sector both nationally and internationally.

The course is structured to enable exit at:
- Graduate Certificate in Medical Ultrasound
- Graduate Diploma in Medical Ultrasound
- Master of Medical Ultrasound

The graduate certificate introduces the student to the basic concepts of ultrasound and then provides a focus in a particular branch of clinical ultrasound, for example, obstetrics. The graduate diploma prepares students for competent professional practice as a general sonographer. Completion of the whole master’s program enables the student to also develop advanced research skills.

WHAT IS MEDICAL ULTRASOUND?

Ultrasound imaging, also known as sonography, is used to demonstrate a person's internal body structures as a cross-sectional or real-time image. A highly skilled professional, known as a sonographer, uses an ultrasound machine to emit high-frequency sound waves and record the reflected echoes from within the human body to create diagnostic images capable of demonstrating trauma and disease. The high frequency of the sound means the human ear cannot hear it – which is why it is called ultrasound. Ultrasound is routinely used to study the developing fetus in pregnant women and to demonstrate other structures, such as abdominal and pelvic organs, muscles and joints, the heart, blood vessels and the blood flow within them.

WHAT DO SONOGRAPHERS DO?

Sonographers conduct diagnostic medical ultrasound examinations using a range of ultrasound modalities to produce a record of anatomical structures and pathophysiological data across a wide range of clinical applications. Sonographers tailor the ultrasound examinations depending on their findings and the purpose of the examination. The sonographer’s findings and record of examination are then generally reviewed by a medical specialist, for example a radiologist, to produce a diagnostic report.

CAREER OPPORTUNITIES

- Management/teaching
- Specialist sonographer in vascular, obstetrics and gynaecology, paediatrics or musculoskeletal ultrasound practice
- Applications specialist and commercial ultrasound sales representative
- Research – opportunities to engage in further studies at Master of Philosophy or Doctor of Philosophy level, participate and conduct clinical trials, research projects and workplace audits.

HOW DO I BECOME A SONOGRAPHER?

Sonographers need to complete graduate studies approved by the Australian Sonographers Accreditation Registry, ASAR, in order to be eligible for accreditation. The Master of Medical Ultrasound course is accredited by ASAR (completion of at least the graduate diploma level of the program is required for accreditation as a general sonographer). For more information, please refer to the ASAR website at: asar.com.au
HOW TO APPLY, AND SELECTION

Detailed information regarding fees and the admission requirements for entry into this course can be found at: study.monash/courses/find-a-course/2017/medical-ultrasound-m6005. This course has intakes in semester one and semester two. Application closing dates can be found at: med.monash.edu.au/radiography/postgrad/master-medical-ultrasound.html.

To be eligible for admissions, applicants must have successfully completed an Australian undergraduate degree in radiography and medical imaging (or equivalent) with at least (55%) pass average, OR a related science or health science degree with at least (55%) pass average, including a study of “full body” human anatomy and physiology (or equivalent bridging course*), OR a qualification/experience or satisfactory substitute that the faculty considers to be equivalent, AND applicants must also have passed Year 12 level physics or equivalent bridging course.

* Details on equivalent bridging courses in physics, and human anatomy and physiology can be obtained from: radiation.sciences@monash.edu

To be eligible to complete the clinical ultrasound units (from second semester onwards), students must be actively engaged in supervised ultrasound clinical practice in the workplace for at least three days a week (or equivalent). It is the student’s responsibility to secure a supervised ultrasound clinical placement in the workplace.

The University does not assist with securing clinical training placements. We do not recommend that candidates apply for the course unless they are certain that they can secure a clinical placement.

This course is not available to holders of an Australian international student visa.

FURTHER INFORMATION

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The information in this brochure was correct at the time of publication (October 2016). Monash University reserves the right to alter this information should the need arise. You should always check with the relevant faculty office when considering a course.

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