Graduate Certificate in Applied Science (Breast Ultrasound) (PH60)

Year offered: 2011
Admissions: Yes
Course duration (part-time): 2 semesters (1 year)
Domestic Fees (indicative): 2011: Full fee tuition $7,375 (indicative) per semester
Domestic Entry: February
Total credit points: 48
Standard credit points per part-time semester: 24
Course coordinator: Associate Professor Pam Rowntree
Discipline coordinator: Gillian Kennedy (Breast Ultrasound)
Campus: Gardens Point

Career Outcomes
This course is particularly designed for graduates and practitioners in ultrasound fields, such as radiographers, medical imaging technologists and sonographers, who wish to upgrade their qualifications and are interested in an in-depth study in this rapidly developing specialty area of ultrasound.

Course Design
Students must be employed in a suitable clinical practice with adequate access to clinical experience for the duration of the course. Formal lectures are conducted in an intensive one-week block of classes at the beginning of each semester. Further academic requirements can be met without requiring on-campus attendance. Students not based in Brisbane can minimise their time on campus by completing an intensive one-week block each semester.

Professional Recognition
This course is accredited with the Australasian Sonographer Accreditation Registry (ASAR).

International Student Entry
This course is not available to international students.

Limits on grades of 3
A new policy concerning grades of 3 came into effect from 1 January 2009 (QUT MOPP C/5.2). With effect from this date grades of 3 are no longer considered a conceded or low pass but are classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 retain the conceded pass status and will be counted for graduation purposes up to the maximum number of grades of 3 permitted for your course. Grades of 3 incurred in units that commence after 1 January 2009 will not count towards your degree. Further information is available on the Student Services website.

Further Information
For further information about this course, please contact the following:

Course Coordinator
Associate Professor Pam Rowntree
Phone: +61 7 3138 2346
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Discipline Coordinator
Gillian Kennedy (Breast Ultrasound)
Phone: +61 7 3138 7684
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Course structure
To complete the Graduate Certificate in Applied Science (Breast Ultrasound), students must complete the units listed below (total 48 credit points).

**Semester 1**
- PCN162 Principles of Medical Ultrasound
- PCN187 Specialist Studies
- PCN397-1 Clinical Attachment

**Semester 2**
- PCN184 Breast Imaging
- PCN397-2 Clinical Attachment

NOTE: The PCN397 clinical attachment unit is a 2 semester unit

Potential Careers:
Sonographer.

UNIT SYNOPSES

**PCN162 PRINCIPLES OF MEDICAL ULTRASOUND**
This unit is designed to provide students with a thorough understanding of the physical processes involved in producing an ultrasound image, the features of ultrasound equipment and the role and responsibilities of the sonographer in producing a diagnostic examination. Topics include general scanning principles and considerations, care of equipment, physics of ultrasound, ultrasound equipment features, image production and processing,
artefacts, image recording methods, quality control, biological hazards and safety issues, principles of Doppler ultrasound, care of the patient and communication issues.  

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-1

**PCN184 BREAST IMAGING**
This unit includes the following: medical imaging of the breast; principles of mammographic and sonographic imaging; breast anatomy and physiology; pathological conditions affecting the breast and its appearance; advanced mammographic techniques; mammographic and sonographic quality assurance.  

**Prerequisites:** PCN187 and PCN397-1  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-2

**PCN187 SPECIALIST STUDIES**
This unit allows students to explore specialist techniques and applications through self-directed study and research.  

**Credit points:** 12  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-1

**PCN397 CLINICAL ATTACHMENT**
This is a supervised practical program carried out in an approved medical imaging department. Students are required to undertake specified clinical practice as applicable to their area of specialisation and meet minimum requirements of clinical hours and case scope and numbers. (12 credit points achieved at completion of PCN397-1 and PCN397-2.)  

**Credit points:** 6  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-1

**PCN397 CLINICAL ATTACHMENT**
This is a supervised practical program carried out in an approved medical imaging department. Students are required to undertake specified clinical practice as applicable to their area of specialisation and meet minimum requirements of clinical hours and case scope and numbers. (12 credit points achieved at completion of PCN397-1 and PCN397-2.)  

**Credit points:** 6  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-2