

2009 Course Summary Sheet

■ Graduate Diploma in Applied Science (PH71)

with majors in Medical Physics and Medical Ultrasound

This document will assist you with the selection of your study program and completion of your enrolment. Other useful information can be found on the Student Services website studentservices.qut.com/, which can also be accessed via the Online Enrolment portlet.

Location: Gardens Point campus

Course Duration: 2 semesters (1 year) full-time, 4 semesters (2 years) part-time for Medical Physics
4 semesters (2 years) part-time only for Medical Ultrasound

Total Credit Points: 96

Standard Credit Points/Full-time Semester: 48

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Strand Coordinators:

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Course Commencement:

The Medical Physics program commences in February and July each year.

The PH71 Medical Ultrasound program commences in February each year. Applications are to be made by 1 December in the preceding year. There is no mid year entry for the PH71 medical ultrasound program.

MEDICAL PHYSICS MAJOR

To be eligible to enrol for the Medical Physics major, an applicant must have completed an acceptable tertiary course with a major in Physics.

Applicants with other qualifications (e.g. Engineering) may be enrolled subject to the approval of the Head of the School of Physical and Chemical Sciences. In some instances, a modified program may be necessary.

MEDICAL ULTRASOUND MAJOR

To be eligible to enrol in the Medical Ultrasound major an applicant will normally be qualified as a diagnostic radiographer (or medical imaging technologist) at degree or diploma level or nurse at degree level and have a minimum of two years experience in clinical practice.

Applicants must also demonstrate, in writing, that employment in a suitable clinical practice will be available for the duration of the course.

Limits on grades of 3: A new policy concerning grades of 3 comes into effect from 1 January 2009 (QUT MOPP C/9.2). With effect from this date grades of 3 will no longer be considered a conceded or low pass but will be classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 will 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. The maximum number of pre-2009 grades of 3 permitted for this course can be found [here](#).

Important Note: Please ensure you select the correct teaching period, class and location code for all units you are enrolled in. All units in this course have a location of Gardens Point and a class of Internal.

Domestic students in the Graduate Diploma in Applied Science (PH71) will be invited, on successful completion of 96 credit points, to continue with studies in the Masters of Applied Science (PH80).

International students wishing to change courses should consult International Student Business Services.

Course Requirements

MEDICAL PHYSICS MAJOR

Students must complete units from the list below, totalling 96 credit points.

		Credit Points	Contact Hrs/Wk	Prerequisite(s)	Corequisite(s)
FIRST SEMESTER ENTRY – FULL-TIME COURSE					
Year 1, Semester 1 (February to June)					
LSB142	Human Anatomy & Physiology	12	5		
PCN113	Radiation Physics	12	4		
PCN114	Microprocessors & Instrumentation	12	4		
PCN211	Physics of Medical Imaging	12	4		
Year 1, Semester 2 (July to October)					
PCN112	Medical Imaging Science	12	4		
PCN212	Radiotherapy	12	4		
PCN214	Health & Occupational Physics	12	4		
PCN218	Research Methodology & Professional Studies	12	4		
FIRST SEMESTER ENTRY – PART-TIME COURSE					
Year 1, Semester 1 (February to June)					
LSB142	Human Anatomy & Physiology	12	5		
PCN113	Radiation Physics	12	4		
Year 1, Semester 2 (July to October)					
PCN112	Medical Imaging Science	12	4		
PCN212	Radiotherapy	12	4		
Year 2, Semester 1 (February to June)					
PCN114	Microprocessors & Instrumentation	12	4		
PCN211	Physics of Medical Imaging	12	4		
Year 2, Semester 2 (July to October)					
PCN214	Health & Occupational Physics	12	4		
PCN218	Research Methodology & Professional Studies	12	4		
MID-YEAR ENTRY – FULL-TIME COURSE					
Year 1, Semester 2 (July to October)					
LSB258	Principles of Human Physiology	12	4	LSB118	LSB238
PCN112	Medical Imaging Science	12	4		
PCN212	Radiotherapy	12	4		
PCN214	Health & Occupational Physics	12	4		
Year 2, Semester 1 (February to June)					
PCN113	Radiation Physics	12	4		
PCN114	Microprocessors & Instrumentation	12	4		
PCN211	Physics of Medical Imaging	12	4		
PCN218	Research Methodology & Professional Studies	12	4		
MID-SEMESTER ENTRY – PART-TIME COURSE					
Year 1, Semester 2 (July to October)					
LSB258	Principles of Human Physiology	12	4	LSB118	LSB238
PCN112	Medical Imaging Science	12	4		
Year 2, Semester 1 (February to June)					
PCN113	Radiation Physics	12	4		
PCN114	Microprocessors & Instrumentation	12	4		
Year 2, Semester 2 (July to October)					
PCN212	Radiotherapy	12	4		
PCN214	Health & Occupational Physics	12	4		
Year 3, Semester 1 (February to June)					
PCN211	Physics of Medical Imaging	12	4		
PCN218	Research Methodology & Professional Studies	12	4		

Course Requirements

MEDICAL ULTRASOUND MAJOR

Students must complete the units listed below (total 96 credit points)

FIRST SEMESTER ENTRY – PART-TIME COURSE		Credit Points	Contact Hrs/Wk	Prerequisite(s)	Corequisite(s)
Year 1, Semester 1					
PCN159	Ultrasonic Examinations 1	12	4		PCN162, PCN197-1, PCN197-2
PCN162	Principles of Medical Ultrasound ¹	12	4		
PCN197-1	Clinical Attachment 1/1 ²	6			PCN159, PCN162
Year 1, Semester 2					
PCN197-2	Clinical Attachment 1/2 ²	6			PCN197-1
PCN356	Ultrasonic Examinations 2	12	4	PCN159, PCN162	PCN197-1, PCN197-2
Year 2, Semester 1					
PCN297-1	Clinical Attachment 2/1 ²	6		PCN159, PCN197-1, PCN197-2, PCN356	
PCN355	Vascular Ultrasound	12	4	PCN159, PCN162	
PCN357	Advanced Ultrasound Topics	12	4	PCN159, PCN162, PCN356	PCN297-1, PCN297-2
Year 2, Semester 2					
PCN218	Research Methodology & Professional Studies ¹	12	4		
PCN297-2	Clinical Attachment 2/2 ²	6		PCN297-1	

Each clinical attachment unit (ie PCN197 and PCN297) involves clinical experience in the order of 3 days per week or equivalent.

¹ These units are primarily Web-based.

² The Clinical Ultrasound units PCN197 and PCN297 are 2 semester units in the Medical Ultrasound Major.