

# 2009 Course Summary Sheet

## ▪ Master of Applied Science (PH80)

### 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/](http://studentservices.qut.com/), which can also be accessed via the Online Enrolment portlet.

**Location:** Gardens Point campus

**Course Duration:** 3 semesters (1½ years) full-time, 6 semesters (3 years) part-time for Medical Physics  
6 semesters (3 years) part-time only for Medical Ultrasound

**Total Credit Points:** 144

**Standard Credit Points/Full-time Semester:** 48

**Course Coordinator:** Dr Andrew Fielding, Phone 07 3138 5325, Fax 07 3138 1521, Room Q337 Gardens Point,  
Email: [a.fielding@qut.edu.au](mailto:a.fielding@qut.edu.au)

#### Strand Coordinators:

**Medical Physics Major:** Dr Andrew Fielding, Phone 07 3138 5325, Fax 07 3138 1521, Room Q337 Gardens Point,  
Email: [a.fielding@qut.edu.au](mailto:a.fielding@qut.edu.au)

**Medical Ultrasound Major:** Mrs Natasha Kazich, Phone 07 3138 2490, Fax 07 3138 1521, Room Q419 Gardens Point, Email:  
[n.kazich@qut.edu.au](mailto:n.kazich@qut.edu.au)

#### Course Commencement

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

The PH80 Medical Ultrasound program commences in February and July each year. Applications are to be made by 1 December for February commencement and 1 April for July commencement.

#### 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 (eg 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.***

Students in the Master of Applied Science (PH80) wishing to exit with the Graduate Diploma in Applied Science (PH71) are required to submit an Application to Graduate Early with an Approved Exit Course (SRX) Form in their final semester of study.

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.

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>	<b>Prerequisite(s)</b>	<b>Corequisite(s)</b>
<b>FIRST SEMESTER ENTRY – FULL-TIME COURSE</b>					
<b>Year 1, Semester 1 (February to June)</b>					
LSB142	Human Anatomy & Physiology	12	5		
PCN113	Radiation Physics	12	4		
PCN114	Microprocessors & Instrumentation	12	4		
PCN211	Physics of Medical Imaging	12	4		
<b>Year 1, Semester 2 (July to October)</b>					
PCN112	Medical Imaging Science	12	4		
PCN212	Radiotherapy	12	4		
PCN214	Health & Occupational Physics	12	4		
PCN218	Research Methodology & Professional Studies	12	4		
<b>Stage 2 * - Project Over One Semester or Summer Program</b>					
PCN520	Project (FT)	48			
<b>FIRST SEMESTER ENTRY – PART-TIME COURSE</b>					
<b>Year 1, Semester 1 (February to June)</b>					
LSB142	Human Anatomy & Physiology	12	5		
PCN113	Radiation Physics	12	4		
<b>Year 1, Semester 2 (July to October)</b>					
PCN112	Medical Imaging Science	12	4		
PCN212	Radiotherapy	12	4		
<b>Year 2, Semester 1 (February to June)</b>					
PCN114	Microprocessors & Instrumentation	12	4		
PCN211	Physics of Medical Imaging	12	4		
<b>Year 2, Semester 2 (July to October)</b>					
PCN214	Health & Occupational Physics	12	4		
PCN218	Research Methodology & Professional Studies	12	4		
<b>Stage 2 * - Project Over Two Semesters</b>					
PCN540-1	Project (PT)	24			
PCN540-2	Project (PT)	24			
<b>MID-YEAR ENTRY – FULL-TIME COURSE</b>					
<b>Year 1, Semester 2 (July to October)</b>					
LSB258	Principles of Human Physiology	12	4	LSB118	LSB238
PCN112	Medial Imaging Science	12	4		
PCN212	Radiotherapy	12	4		
PCN214	Health & Occupational Physics	12	4		
<b>Year 2, Semester 1 (February to June)</b>					
PCN113	Radiation Physics	12	4		
PCN114	Microprocessors & Instrumentation	12	4		
PCN211	Physics of Medical Imaging	12	4		
PCN218	Research Methodology & Professional Studies	12	4		
<b>Stage 2 * - Project Over One Semester or Summer Program</b>					
PCN520	Project (FT)	48			

		<b>Credit Points</b>	<b>Contact Hrs/Wk</b>	<b>Prerequisite(s)</b>	<b>Corequisite(s)</b>
<b>MID-SEMESTER ENTRY – PART-TIME COURSE</b>					
<b>Year 1, Semester 2 (July to October)</b>					
LSB258	Principles of Human Physiology	12	4	LSB118	LSB238
PCN112	Medical Imaging Science	12	4		
<b>Year 2, Semester 1 (February to June)</b>					
PCN113	Radiation Physics	12	4		
PCN114	Microprocessors & Instrumentation	12	4		
<b>Year 2, Semester 2 (July to October)</b>					
PCN212	Radiotherapy	12	4		
PCN214	Health & Occupational Physics	12	4		
<b>Year 3, Semester 1 (February to June)</b>					
PCN211	Physics of Medical Imaging	12	4		
PCN218	Research Methodology & Professional Studies	12	4		
<b>Stage 2 * - Project Over Two Semesters</b>					
PCN540-1	Project (PT)	24			
PCN540-2	Project (PT)	24			

### **MEDICAL ULTRASOUND MAJOR**

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

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

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

### **Stage 2 \* - Project Over One Semester or Summer Program**

PCN520	Project (FT)	48			
--------	--------------	----	--	--	--

### **Project Over Two Semesters**

PCN540-1	Project (PT)	24			
PCN540-2	Project (PT)	24			

<sup>1</sup> These units are primarily Web-based.

<sup>2</sup> The Clinical Ultrasound units PCN197 and PCN297 are 2 semester units in the Medical Ultrasound Major.

**Note:** A student may request an extension of time in which to submit the project report for assessment. A request for an extension of time up to a maximum of six months should be made in writing through the Head of School to the Dean. Any request for a further extension, or any request for an extension to a date later than six months after the original due date, should be made in writing to the Academic Board. The Academic Board may grant the extension under such conditions as it may consider appropriate, or may award the student a 'Fail' result in the project unit.

A student who has received a 'Fail' result in the project unit may re-enrol in the unit only in exceptional circumstances and with the express permission of the Academic Board.

\* Project units in Stage 2 are offered in all semesters.