

# MSc Medical Imaging and Radiation Sciences



# Course overview

The MSc Medical Imaging and Radiation Sciences course and its four specialised pathways is designed to enable you to enhance your current knowledge and understanding in the field of diagnostic and therapeutic radiography and give you opportunities to challenge and critically evaluate your professional practice. The aim is to advance your skills as a professional and develop your career so that you can practice safely, effectively and legally.

The **Diagnostic Imaging** pathway gives you the opportunity to demonstrate development of your critical evaluative and problem solving skills in specialised areas of practice such as magnetic resonance imaging (MRI) and computerised tomography (CT).

The **Diagnostic Ultrasound** pathway is for professionals who wish to develop competency in the field of ultrasound. Clinical modules are offered in the areas of obstetrics, gynaecology, abdominal and vascular ultrasound.

The **Image Interpretation** is designed for students who want to develop competency in the extended role of image interpretation and helps you specialise in this specific area of practice. Clinical modules are offered in musculoskeletal reporting. Other specialist reporting areas can be taken via the independent study modules.

The **Radiotherapy and Oncology** pathway specialises in the field of radiotherapeutic practice. Many of the options develop competencies for advanced practice such as in the palliative care and breast localisation modules.

All pathways include a significant level of work-based learning and give you the opportunity to focus on independent learning in order to gain problem solving and decision making skills. You are encouraged throughout each module to tailor the learning outcomes in a way that it benefits your current experience and serves your individual service development needs. In addition, all modules include a solid theoretical background foundation that relates to practices.

## Professional Accreditation

Our MSc Medical Imaging and Radiation Sciences course is accredited by the College of Radiographers.

## Key strengths of our course

- opportunity to share ideas with other health professions in order to develop intellectual abilities and assist in the advancement of health care
- flexible study options based on a modular structure
- interprofessional learning
- teaching by experienced staff and visiting external specialists

## Who is it for?

The course is suitable for radiographers and health care professionals who want to specialise in this area and are interested in advancing their existing skills or acquiring new ones. It is designed to meet your needs whether you are in full or part-time employment.



# Course structure

The MSc Medical Imaging and Radiation Sciences course is modular in structure. You can choose to study for single modules only or enrol on a programme that leads to an exit award.

If you want to collect credits towards an award see below the different types of awards and credit requirements:

- Postgraduate certificate – 60 credits
- Postgraduate diploma – 120 credits
- Master's degree – 180 credits

To complete a Master's degree for this course you need to collect the following credits:

- Research modules – 60 credits
- Core modules – minimum 30 credits
- Optional modules – maximum 90 credits

## Research

Research dissertation (45)  
Research methods (15)  
Research investigation (45)

## Interprofessional

Advanced decision making in contemporary health (15)  
Coaching to enhance leadership for health professionals (15)  
Developing and managing people in health and social care (15)  
Developing research skills for health professionals - distance learning (15)  
E-learning in the practice environment (15)  
Facilitation of education in practice (15/30)  
Redesigning services for the future (15)

## Core

### All pathways:

Independent Professional Study 1 and 2 (15/30)  
Independent reflection in professional practice (15/30)  
Independent work-based skills (15/30)  
Independent work-based skills 3 (30)

### Diagnostic imaging

Advances in imaging practice (15)  
Computed tomography applications (15)  
Computed tomography in practice (15)  
Computed tomography: science and principles (15)  
MRI science and principles (15)  
MRI applications (15)  
MRI in practice (15)  
Sectional anatomy for imaging (15)

### Diagnostic ultrasound

Abdominal and general ultrasound (30)  
Applications of ultrasound science (15)  
Gynaecological ultrasound (30)  
Obstetric ultrasound (30)  
Principles of image reporting (15)  
Ultrasound independent work-based skills 1, 2, 3 (15/15/30)  
Vascular ultrasound – carotid artery and DVT (15)

### Image interpretation

Clinical applications: musculoskeletal image interpretation (30)  
Image recognition: brain CT (15)  
Image recognition: chest radiography (15)  
Musculoskeletal image interpretation (30)  
Principles of image reporting (15)

### Radiotherapy and oncology

Advances in radiotherapy and oncology management (15)  
Imaging for radiotherapy and oncology (15)  
Palliative radiotherapy localisation (30)  
Radiotherapy breast localisation (15)

Note: the numbers in brackets show the credit value for each course

Read more about the courses and modules on [go.herts.ac.uk/mirs](http://go.herts.ac.uk/mirs)

## Where will I study?

The courses take place at College Lane campus in Hatfield, just 25-minutes away from central London by train. Luton airport and Stansted airport are just 40 minutes away.

## Entry requirements

Applicants should have an honours degree or equivalent in radiography and be registered with the Health and Care Professions Council (HCPC). If you choose to study a module that assesses clinical competence you must have a recognised clinical placement and preferably at least one year's post-qualification experience.

If English is not your first language you are required to demonstrate English Language proficiency of IELTS at Level 7.0 (including 7.0 in the writing component) with no less than 6.5 in every band.

## Study Options

Full time – sixteen months (only available for diagnostic imaging pathway)

Part time – up to six years

## Fees

The University is contracted by the NHS to provide post registration education/CPD and training for its health professionals. If you are an NHS employee contact the senior manager responsible for post registration education/CPD in your Trust to check if the course can be supported by the Trust's contract with our University.

For fees for self-funding students visit

[go.herts.ac.uk/cpdfees](http://go.herts.ac.uk/cpdfees)

## How to apply

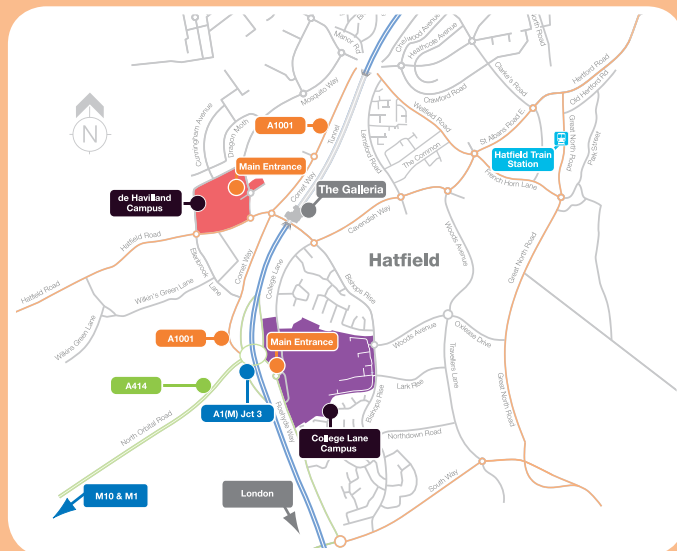
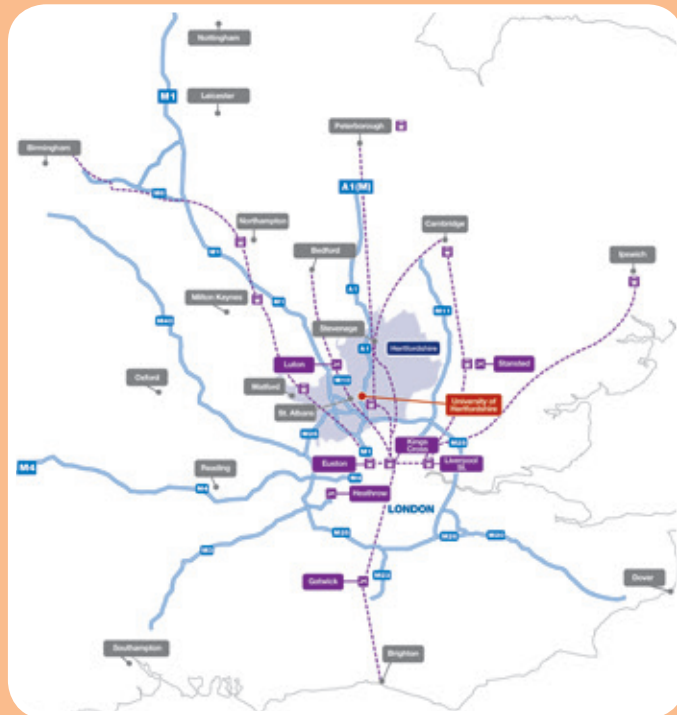
To apply for the course you need to complete a University application form which can be found on

[go.herts.ac.uk/cpdapply](http://go.herts.ac.uk/cpdapply)

You can also contact the Health CPD office on 01707 284956 or by email at [cpdhealth@herts.ac.uk](mailto:cpdhealth@herts.ac.uk)

## Enquiries

For further enquiries about the course contact Louise Smith at [l.m.smith@herts.ac.uk](mailto:l.m.smith@herts.ac.uk)



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