

PROGRAMME SPECIFICATION – UNDERGRADUATE PROGRAMMES

KEY FACTS

Programme name	Radiography (Diagnostic Imaging)
Award	BSc (Hons)
School	School of Health Sciences
Department or equivalent	Division of Radiography
UCAS Code	B821
Programme code	USRDIA
Type of study	Full Time
Total UK credits	360
Total ECTS	180

PROGRAMME SUMMARY

Diagnostic Radiographers use their knowledge of healthcare technology and their excellent interpersonal skills, to produce and interpret images which help diagnose illness. The BSc (Hons) Radiography (Diagnostic Imaging) programme provides the physical, technological, biological and social knowledge required to work within a healthcare team and gain the professional skills to practise as a radiographer. Anatomy, physiology and pathology, radiographic technique, radiation physics, equipment, digital imaging and service provision are all included in the different modules of the courses. The Honours Degree will confer eligibility for application for Health and Care Professionals Council (HCPC) registration and full membership with the Society and College of Radiographers (SCOR).

The programme consists of a 3 year full time course based around 3 academic terms per year. Approximately half of the time will be spent in university and half on clinical placement. During clinical placements you will attend for 28 hours per week.

The educational aims of this programme of study are:

General

- To provide the basis for life-long learning by allowing you to develop transferable skills.
- To encourage you to carry out self-directed learning.
- To assist you in the acquisition of the skills of research and inquiry and provide you with the opportunity to develop their ability to produce original work.
- To make appropriate use of a range of learning and teaching methods and resources to provide a positive learning experience.

Subject Specific

- To produce graduates with the relevant underpinning knowledge, skills and competencies required for both state registration and professional body membership.
- To provide a vocational education that will produce graduates who are safe reflective practitioners, responsive to the needs of the patients and service, who are able to critically review knowledge of clinical practice.

- To promote the awareness of team working within the health service and the role of the radiographer within an inter-professional team.
- To produce graduates who are dedicated to the maintenance and enhancement of standards of patient care.
- To support your learning experience and allow you to appreciate the link between theoretical knowledge and practice.
- To prepare the graduate to work effectively in a constantly changing health-care environment.
- To encourage you to have a patient centred approach to your professional practice.
- To ensure graduate radiographers are fit to practice.

WHAT WILL I BE EXPECTED TO ACHIEVE?

On successful completion of this programme, you will be expected to be able to:

Knowledge and understanding:

- Apply the theoretical basis of diagnostic imaging practice.
- Describe and explain the anatomical and physiological principles related to health and disease.
- Recognise and apply recent developments in the practice of diagnostic imaging.
- Understand healthcare provision, including the current structure and policies of the NHS.
- Recognise the responsibilities of a professional radiographer.
- Operate within the department within the legislative framework relating to radiation protection

Skills:

- Undertake diagnostic imaging in a skilled safe and competent way.
- Demonstrate the ability of critical self-reflection.
- Evaluate research and a variety of information and evidence critically.
- Synthesise ideas and information.
- Demonstrate an ability to respond to the individual patient's needs in a professional and ethical manner.
- Synthesise knowledge from a wide range of resources.
- Communicate effectively with other members of the team and patients.
- Assess the patients' suitability for diagnostic imaging.
- Apply knowledge from a wide range of sources in order to gain an understanding of theory and practice.
- Make informed decisions about clinical practice within the accepted departmental

protocols.

- Utilise problem solving skills effectively.

Values and attitudes:

- Show consideration for individual patient's needs.
- Provide academic work correctly referenced.
- Work, where appropriate, with other health and social care professionals and support staff and patients/clients/carers to maximise health outcomes

This programme has been developed in accordance with the QAA Subject Benchmark for Radiography.

Registration Period

The normal period of registration for this programme is 3 years
The maximum period of registration for this programme is 6 years.

HOW WILL I LEARN?

Delivery of the programme, both academic and clinical, is achieved through a variety of approaches to teaching and learning in order to stimulate interest and understanding of the various issues within the field of study.

Throughout the programme you are encouraged to integrate theory with practice, with evidence based practice being an underpinning theme during the course.

Early in the programme, lectures will introduce you to the new subjects and help guide your own self-directed study. This approach is combined with an interactive style so encouraging active learning amongst your cohort. As the programme progresses your independence is increasingly encouraged, a central tenet to the overall learning and teaching philosophy is the belief of student centred learning with discussions being utilised, as well as tutorial support which can either be inherent to the course or negotiated. Within the clinical environment learning usually occurs through the process of observation and supervised experience working towards specified learning outcomes. This is supported by tutorials, which allow you to reflect on previous experience and prepare yourself for future learning.

The use of online learning and teaching resources are also available to support your learning. This not only promotes an active learning experience for you but also helps develop your IT skills that can be applied beyond the course.

Lectures are commonly utilised to introduce the theoretical concepts, followed by discussions and tutorials, which allow consolidation of learning and application of theory to practice. This is further supported by self-directed study utilising text books, research journals and online resources. As the course progresses specialist lectures contribute

expert knowledge, enhancing the quality of your learning experience.

Learning also takes place within the clinical environment which is inter-professional in nature and relies on the clinical staff to support the learning experience. This is further enhanced by the link lecturers who regularly visit the clinical departments.

A range of active learning processes including assignments, e-learning, research exercise, group-learning activity and work-based activity is utilised in order to allow you to take responsibility for your learning and develop your own skills in your approach to the exercise. At all times throughout the programme you will be supported by tutorials, link lecturers and drop-in sessions, the level of support reflecting the level of study.

Your skills will also be developed through discussions, tutorials, self-study, e-learning and clinical practice as well as optional extra-curricular activities including work experience, student representation work, and social and cultural activities.

Overall Learning and teaching hours -	908 hours
Average contact hours during academic based weeks -	12 hours per week
Average directed study hours during academic weeks -	12 hours per week
Self-directed study hours required -	105 hours per 15 credit module

During clinical placements you will typically be required to attend for 28 hours per week (or equivalent). There is a 95% minimum attendance requirement that you are expected to maintain for the practice component of the course. During your clinical placement, you will be required to attend as directed by supervising staff and your link lecturer, which will ensure that you are able to meet your placement learning outcomes and harmonise with local department working arrangements, appropriate clinical supervision and service user safety. The total number of hours you work should not normally be more than the standard working week but also not significantly shorter such that it may impact upon your ongoing learning and competence development. You should seek to ensure that you are in the department during link lecturer visits.

WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

Assessment and Assessment Criteria

As with delivery, a variety of assessment methods are utilised which allow you to be able to demonstrate understanding of issues to the highest level. Several clinical modules require no written examination as they are assessing practical ability and these modules are assessed via staged coursework which forms the clinical portfolio.

Methods include multiple choice tests, unseen written exams, essays, worksheets, objective structured clinical/practical examination (OSCE/OSPE), written assignments, oral and poster presentations, research exercise and self-reflective statements.

There is also the clinical portfolio, which includes continuous practical assessments, competency logs, observation assessments, self-reflection, clinical assessment and also includes a clinical attendance register which requires a minimum attendance of 95%.

During Programme Stage 1 of the programme there are a series of mandatory sessions that students must attend before being allowed on clinical placement. These include; aspects of health & safety and foundation clinical skills. In addition to this, students will be required to attend a minimum of 75% of other contact teaching sessions directly related to clinical placement. This will be monitored and if not achieved students will be required to show sufficient knowledge and understanding before being allowed on placement. This will be through module assessment or an additional check if placement precedes the module assessment result.

Assessment Criteria are descriptions, based on the intended learning outcomes, of the skills, knowledge or attitudes that you need to demonstrate in order to complete an assessment successfully, providing a mechanism by which the quality of an assessment can be measured. Grade- Related Criteria are descriptions of the level of skills, knowledge or attributes that you need to demonstrate in order achieve a certain grade or mark in an assessment, providing a mechanism by which the quality of an assessment can be measured and placed within the overall set of marks. Assessment Criteria and Grade-Related Criteria will be made available to you to support you in completing assessments. These may be provided in programme handbooks, module specifications, on the virtual learning environment or attached to a specific assessment task.

Feedback on assessment

Feedback will be provided in line with our Assessment and Feedback Policy. In particular, you will normally be provided with feedback within three weeks of the submission deadline or assessment date. This would normally include a provisional grade or mark. For end of module examinations or an equivalent significant task (e.g. an end of module project), feedback will normally be provided within four weeks. The timescale for feedback on final year projects or dissertations may be longer. The full policy can be found at:

https://www.city.ac.uk/__data/assets/pdf_file/0008/68921/assessment_and_feedback_policy.pdf

Assessment Regulations

In order to pass your Programme, you should complete successfully or be exempted from the relevant modules and assessments and will therefore acquire the required number of credits. You also need to pass each Programme Stage of your Programme in order to progress to the following Programme Stage.

The Programme Stages are weighted as follows:

Programme Stage 1 – 20%

Programme Stage 2 – 30%

Programme Stage 3 – 50%

The pass mark for each module is 40%.

If you fail an assessment component or a module, you will normally be offered one resit attempt. If you did not participate in the first assessment you will be offered a resit, whether or not you have extenuating circumstances.

If you are successful in the resit, you shall be awarded the credit for that module. The mark used for the purpose of calculation towards your Award shall be calculated from the original marks for the component(s) that you passed at first attempt and the minimum pass mark for the component(s) for which you took a resit.

If you do not satisfy your resit by the date specified you will not progress to the next Programme Stage and the Assessment Board shall require that you withdraw from the Programme.

BSc Radiography (Diagnostic Imaging) uses the following criteria on which to base the use of discretion by an Assessment Board to consider offering a third and final attempt at an assessment to students on an individual basis (see Senate Assessment Regulations S19).

The criteria to be used to allow an Assessment Board to exercise this discretion should be made on the basis that a student must have achieved an overall average of at least 50% (undergraduate in Programme 2 and 3). Also, only one assessment should have been failed

When making a decision on whether an Assessment Board should exercise discretion in awarding a third and final attempt the average across all previous programme stages will be considered but the failed module will not be taken into account when looking at the average.

All modules will be weighted equally in this process so a 15 credit module would be given equal consideration as a 45 credit module.

If the assessment is practice based and there are only outstanding signatures, the module is not 'failed' and students can re-submit their portfolio. The outstanding signatures, and thus the fail, will not be counted when calculating the average grade over the programme or programme stage. The Assessment Board will not consider a discretionary third sit for any practical assessment failed (either placement or in-house clinical).

Unsafe practice will be considered at the 50% average for consistency.

If you fail to meet the requirements for a particular Programme Stage, but satisfy the requirements for the previous Programme Stage, then a lower qualification may be awarded as per the table below. If you fail to meet the requirements for a particular Programme and are not eligible for the award of a lower level qualification, the Assessment Board shall require that you withdraw from the Programme.

If you would like to know more about the way in which assessment works at City, please see the full version of the Assessment Regulations at:

http://www.city.ac.uk/_data/assets/word_doc/0003/69249/s19.doc

WHAT AWARD CAN I GET?

Bachelor's Degree with Honours:

Programme Stage	HE Level	Credits	Weighting (%)
1	4	120	20
2	5	120	30
3	6	120	50

Class	% required
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I	70
II upper division	60
II lower division	50
III	40

Ordinary Degree:

Programme Stage	HE Level	Credits	Weighting (%)
1	4	120	20
2	5	120	30
3	6	60	50

Class	% required
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With Distinction	70
With Merit	60
Without Classification	40

Diploma of Higher Education:

Programme Stage	HE Level	Credits	Weighting (%)
1	4	120	35
2	5	120	65

Class	% required
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With Distinction	70
With Merit	60
Without Classification	40

Certificate of Higher Education:

Programme Stage	HE Level	Credits	Weighting (%)
1	4	120	100

Class	% required
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With Distinction	70
With Merit	60
Without Classification	40

WHAT WILL I STUDY?

Programme Stage 1

To pass Programme Stage 1, you must have acquired 120 credits as specified in Programme Stage 1 of the programme scheme. To progress from Programme Stage 1 to Programme Stage 2, Programme Stage 1 requirements must have been satisfied.

Module Title	SITS Code	Module Credits	Core/ Elective	Compensation Yes/No	Level
Common Module 1	RC1021	15	Core	No	4
Common Module 2	RC1022	15	Core	No	4
Radiographic, Anatomy, Physiology & Pathology	RD1023	30	Core	No	4
Science of Medical Imaging 1	RD1024	30	Core	No	4
Principles of Imaging in Practice 1	RD1025	30	Core	No	4

Programme Stage 2

To pass Programme Stage 2, you must have acquired 120 credits as specified in Programme Stage 2 of the programme scheme. To progress from Programme Stage 2 to Programme Stage 3, Programme Stage 2 requirements must have been satisfied.

Module Title	SITS Code	Module Credits	Core/ Elective	Compensation Yes/No	Level
Radiography Research & Statistics	RC2021	15	Core	No	5
Science of Medical Imaging 2	RD2022	15	Core	No	5
Principles of Imaging in Practice 2	RD2023	30	Core	No	5
Professional Practice in Medical Imaging	RD2024	60	Core	No	5

Programme Stage 3

To pass Programme Stage 3, you must have acquired 120 credits as specified in Programme Stage 3 of the programme scheme.

Award of Honours Degree

To qualify for the Honours Degree, you must have passed all of the appropriate assessments for Programme Stages 1, 2 and 3 and have an overall clinical attendance of at least 95%.

The Honours Degree will confer eligibility for application for HCPC registration.

Award of Ordinary Degree

To qualify for the Ordinary Degree in Health Studies, you must satisfy the requirements for Programme Stages 1 and 2 and additionally have acquired at least 60 credits at Programme Stage 3. The overall percentage mark for Programme Stage 3 shall be calculated on the basis of the marks relating to modules totalling 60 credits which have achieved the highest score of those successfully completed at Programme Stage 3.

The ordinary degree will not confer eligibility for application for HCPC registration.

An award of an aegrotat degree will be titled BSc in Health Studies and will not confer eligibility for application for HCPC registration.

Module Title	SITS Code	Module Credits	Core/ Elective	Compensation Yes/No	Level
Equipment Evaluation	RD3022	15	Core	No	6
Image Interpretation & Evaluation	RD3023	15	Core	No	6
Preparation for Clinical Practice	RD3024	45	Core	No	6
Management and Radiographic Practice	RD3025	15	Core	No	6
Research Exercise	RC3021	30	Elective	No	6
Research Exercise 2	RC3022	30	Elective	No	6

Elective Practice Placement

Once you have completed all programme requirements there is the opportunity for you to request permission from the programme director/manager to arrange elective placements for yourself at another site rather than stay at your base site during the final three clinical weeks. This period remains part of the programme, allowing consolidation of your clinical ability and may be taken at any point up to and including the week preceding the final assessment board with the agreement of the programme team. As the final three weeks is still part of the programme you must provide evidence of your attendance during this period as we still need to log it towards the 95% requirement in module RD3024. You will be responsible for any cost incurred and ensuring you have liability cover.

TO WHAT KIND OF CAREER MIGHT I GO ON?

When you complete the course you do so as a diagnostic radiographer. Following qualification, and only when successfully registered with the HCPC, you will be able to work as a Radiography Practitioner within any NHS Trust or Private Hospital that provides a Diagnostic Radiography Imaging Service.

Examples of areas which radiographers may progress into include:

- Advanced practitioner
- Consultant practitioner
- Management
- Teaching – academic and clinical
- Working abroad
- Doctoral research

Examples of clinical areas which diagnostic radiographers may progress into include:

- Computed tomography
- Magnetic resonance imaging
- Positron emission tomography
- Ultrasound
- Angiography
- Nuclear medicine

If you would like more information on the Careers support available at City, University of

London, please go to: <http://www.city.ac.uk/careers/for-students-and-recent-graduates>.

WHAT PLACEMENT OPPORTUNITIES ARE AVAILABLE?

Full time students will be placed in diagnostic imaging departments working in partnership with City, University of London. Allocation will be during programme stage 1 of the programme.

WILL I GET ANY PROFESSIONAL RECOGNITION?

Professional Body:

Upon successful completion of the BSc (Hons) Radiography (Diagnostic Imaging) programme you will be eligible to apply for full membership with the College of Radiographers.

- **Accrediting Body:** College of Radiographers
- **Nature of Accreditation:** Professional Body Accreditation
- **Further information is available from:** <https://www.sor.org/>

Regulatory Body:

Upon successful completion of the BSc (Hons) Radiography (Diagnostic Imaging) programme you will be eligible to apply for registration with the Health and Care Professions Council as a radiographer. This is a requirement for employment in the UK.

- **Accrediting Body:** Health and Care Professions Council
- **Nature of Accreditation:** Statutory Regulatory Body
- **Further information is available from:** <http://www.hpc-uk.org/>

HOW DO I ENTER THE PROGRAMME?

As well as meeting the stated academic entry requirements, you will be required to attend a selection day held at City, University of London. You will be asked to complete a personality style questionnaire, numeracy and literacy tests, and participate in a face-to-face interview. The latter is used to ensure that your values match those of the NHS Constitution.

The conditions of the offer will be made via UCAS. The following are examples of typical offers that are made:

- **'A' Level:** 320 UCAS tariff points from three A2 subjects. A minimum of 100 points must be achieved from an A level in Mathematics, Physics, Chemistry or

- Biology, General Studies and Critical Thinking are not accepted.
- **IB:** 33 (must include Physics)
 - **Access to HE Diploma:** Pass in a QAA recognised Access to HE Diploma in Radiography or Science only. Full award (60 credits) of which a minimum of 45 credits must be at Level 3 including 30 credits at Distinction to include at least 6 credits at distinction in Physics and 15 credits at Merit; 15 credits at Level 2.
 - **BTEC Extended Diploma (18 unit award):** D*D*D required (Applied Science or Medical Science only)
 - **Irish Leaving Certificate:** 320 UCAS points gained at Higher from 5 subjects graded A1-B3. This must include Biology and either Chemistry or Physics. English Language and Mathematics from Ordinary Level grades A1-B3, unless part of higher.
 - **Scottish Highers:** 320 UCAS points gained at Advanced Highers Grade A-C (must include Science). English Language and Mathematics from Highers grades A-C, if not already part of Advanced Highers.
 - Students are required to have occupational health and enhanced Disclosure and Barring Service clearance. Academic and character references are also required.

Pre-requisites

- Unless studying towards an Access to HE Diploma in a relevant subject, all applicants **must** have 5 GCSEs including Mathematics, English Language and Double Science at A*-C. We do not consider BTEC National Award, National Certificate, Extended Certificate, Subsidiary Diploma or National Diploma in isolation or combination.

Special requirements: Applicants must complete a clinical visit and return a supportive clinical visit feedback form

Access applicants must hold both GCSE English Language and Mathematics at grade C or above at the point of application. Access applicants who are unable to demonstrate both GCSEs at grade C or above at the point of application will be rejected.

What skills and interests do I need?

- **Good at dealing with people** – therapeutic radiographers meet scores of people every day. Patients may be agitated, scared, angry or upset and the ability to reassure and calm them is essential.
- **Interested in the sciences** – you will need to study anatomy, physiology, radiation physics and the principles of operating imaging equipment.
- **Confidence** – after appropriate training – to work with leading edge technology that can cost millions of pounds.
- **Adaptable** – radiography is constantly changing and radiographers need to be flexible and ready to learn new skills.
- **Capacity to make decisions quickly and independently** – radiographers need to be able to think on their feet and be ready to exercise skill and judgement in a variety of clinical situations.

Recognition of Prior Learning RP(E)L REGULATIONS

The Division of Radiography follows the RP(E)L guidelines used by City.

Students who have previously attempted this three year undergraduate BSc (Hons) programme but were withdrawn due to academic failure are not permitted RP(E)L against this programme.

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