Therapeutic Radiography and Oncology
BSc (Hons)

Course overview
Our Therapeutic Radiography and Oncology programme allows students the traditional academic and clinical learning opportunities to develop into competent and resilient radiographers, equipped with the necessary skills to flourish in a wide array of professional environments.

INTRODUCTION
With an integrated case based approach enabling you to study all aspects of the radiotherapy patient pathway, through connecting your academic lectures, clinical placement experience and clinical simulation.

This programme aims to produce competent, reflective, research active, caring, safe, proactive and progressive Therapeutic Radiographers, through an innovative and authentic teaching and assessment strategy encompassing real world radiotherapy research and radiotherapy clinical simulation.

Programme in detail

The programme has been designed using a case based approach, this means that a cancer patient case will bring to life the radiotherapy patient journey and provide a framework to connect content delivered. The programme content is organised into four key themes:

- Radiotherapy physics, technology and radiobiology
- Radiation oncology and patient care
- Preparation for practice and professionalism
- Research methods in radiotherapy.

You will study a range of profession specific modules, engage in interprofessional learning through activities with fellow allied
health professional students in the School of Health Sciences and attend clinical placement during academic terms. The clinical placements increase in length from year one through to year three. All placements are arranged in a variety of Radiotherapy Cancer Centres and there is an opportunity to spend an elective period in a radiotherapy department of your choice.

**WHAT YOU’LL LEARN**

- Research gathering techniques
- Critical thinking skills
- Communication skills
- Self-directed learning techniques
- Patient care
- Physics, radiobiology and technology skills relating to Radiotherapy
Course content
Discover what you’ll learn, what you’ll study, and how you’ll be taught and assessed.

YEAR ONE
Year one of the programme is concerned primarily with the acquisition of knowledge, with some integration and application of this knowledge to clinical practice. It provides a comprehensive introduction to the fundamental concepts and principles that underpin therapeutic radiography and its role in the management of cancer.

COMPULSORY MODULES

FOUNDATIONS OF RADIOTHERAPY, ONCOLOGY AND PATIENT CARE 1 (RADT118)
Credits: 30 / Semester: semester 1
Using a blended approach, this module will enable students to develop the skills-base needed for safe and effective radiotherapy practice. It will also develop their basic operating skills of a linear accelerator for clinical practice. In addition the students will be introduced to the fundamentals of oncology. The student will be taught and assessed in both University and placement sites in the radonc modules.

FOUNDATIONS OF RADIATION ONCOLOGY AND PATIENT CARE 2 (BREAST) (RADT121)
Credits: 30 / Semester: semester 2

RADIOTHERAPY PRACTICE 1 (RADIOTHERAPY CLINICAL LEARNING AND FOUNDATIONS OF PROFESSIONALISM (RADT123)
Credits: 15 / Semester: whole session

RADIOTHERAPY PHYSICS, TECHNOLOGY AND RADIOBIOLOGY 1 (RADT114)
Credits: 15 / Semester: semester 1

RADIOTHERAPY PHYSICS, TECHNOLOGY AND RADIOBIOLOGY 2 (RADT151)
Credits: 15 / Semester: semester 2
This module develops further the physics concepts introduced in the first semester physics module (RADT114) with specific focus on the clinical application of these concepts. The module will cover physical principles, key components, design, safe use of and clinical application of radiotherapy equipment for localisation, planning and treatment delivery of both radical and palliative pathways. Module learning outcomes are assessed using a written unseen exam.
YEAR TWO

Year two of the programme expands the previously acquired knowledge with an increasing emphasis on the understanding and application of principles to clinical practice. You are encouraged to develop the skills of interpretation and evaluation and to relate them to all areas of the programme.

COMPULSORY MODULES

APPLIED RESEARCH METHODS IN RADIOTHERAPY (RADT221)
Credit: 15 / Semester: semester 2

RADIOTHERAPY PRACTICE 2 (RADIOTHERAPY CLINICAL LEARNING AND DEVELOPING PROFESSIONALISM) (RADT234)
Credit: 30 / Semester: whole session

PRINCIPLES OF RADIATION ONCOLOGY AND PATIENT CARE 3 (PELVIS) (RADT210)
Credit: 30 / Semester: semester 1

PRINCIPLES OF RADIATION ONCOLOGY AND PATIENT CARE 4 (HEAD, NECK AND THORAX) (RADT220)
Credit: 30 / Semester: semester 2

RADIOTHERAPY PHYSICS, TECHNOLOGY AND RADIobiology 3 (RADT214)
Credit: 15 / Semester: semester 1

YEAR THREE

Year three of the programme enables you to develop critical analysis of the impact of innovation and technological advances on practice. The greater part of this year is spent in the clinical environment allowing you to consolidate and develop skills enabling you to become clinically competent and safe to practice.
HOW YOU'LL LEARN

Learning is promoted through a wide variety of activities that enable students to become autonomous and continuous learners. Interactive lectures, practical and clinical skills group work, simulation, directed study, role play, problem based learning, small group work, student-led seminars, collaborative project work and interactive tutorials are key learning strategies for this programme.

Practical work using our imaging suite digital equipment, 3D virtual reality radiotherapy facility, Clinical Skills Resource Room and the Human Anatomy Resource Centre complement teaching activities.

Face-to-face interactions between all students will occur at shared lectures, tutorials and group work and online interaction will be encouraged and facilitated as are inter-professional education and learning opportunities across all healthcare professions programmes.

HOW YOU'RE ASSESSED

Using a mixture of coursework and examination, a range of assessment methods can be seen across this programme. These include seen and unseen written examinations, essay assignments with specific word lengths, multiple choice questions, case study presentations and interactive practical examinations.

Assessment of the work-based learning element of all programmes will be an important aspect of your studies. You will be required to communicate your views orally and in written form; analyse, implement and evaluate your practice; and to extend the research and evidence base of your chosen profession.
The various methods of assessments have been chosen to provide a balance that will permit the undergraduates to demonstrate their intellectual abilities in all areas to the full.

LIVERPOOL HALLMARKS

We have a distinctive approach to education, the Liverpool Curriculum Framework, which focuses on research-connected teaching, active learning, and authentic assessment to ensure our students graduate as digitally fluent and confident global citizens.
Careers and employability

With an ageing population and improved cancer detection techniques, there is a high demand for suitably qualified healthcare professionals to support cancer patients.

As a therapeutic radiography graduate, you’re qualified for a career in one of the most rewarding and stimulating health professions, and eligible to apply for statutory registration with the Health and Care Professions Council (HCPC) and to become a member of the Society of Radiographers.

You will also have gained a qualification that meets the Government’s criteria for ‘fitness for purpose’ and ‘fitness for practice’. This programme has an excellent record of graduate employment within the NHS as a consequence; our graduates are well respected and valued in the UK and internationally.

99% OF HEALTH SCIENCES STUDENTS FIND THEIR MAIN ACTIVITY AFTER GRADUATION MEANINGFUL.

Graduate Outcomes, 2018-19.

As a graduate of the School of Health Sciences you’ll be eligible to apply for registration with the Health and Care Professions Council (HCPC). You can look to explore careers in:

- National Health Service
- Social Services
- Private sector

PREPARING YOU FOR FUTURE SUCCESS

At Liverpool, our goal is to support you to build your intellectual, social, and cultural capital so that you graduate as a socially-conscious global citizen who is prepared for future success. We achieve this by:

- Embedding employability within your curriculum, through the modules you take and the opportunities to gain real-world experience offered by many of our courses.
- Providing you with opportunities to gain experience and develop connections with people and organisations, including student and graduate employers as well as our global alumni.
• Providing you with the latest tools and skills to thrive in a competitive world, including access to Handshake, a platform which allows you to create your personalised job shortlist and apply with ease.

• Supporting you through our peer-to-peer led Careers Studio, where our career coaches provide you with tailored advice and support.
Fees and funding
Your tuition fees, funding your studies, and other costs to consider.

TUITION FEES

Tuition fees cover the cost of your teaching and assessment, operating facilities such as libraries, IT equipment, and access to academic and personal support. Learn more about tuition fees, funding and student finance.

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<th>UK fees</th>
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<tr>
<td>Full-time place, per year</td>
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<tr>
<td>Year in industry fee</td>
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<td>Year abroad fee</td>
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<td>Full-time place, per year</td>
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Fees stated are for the 2022-23 academic year and may rise for 2023-24.

ADDITIONAL COSTS

We understand that budgeting for your time at university is important, and we want to make sure you understand any course-related costs that are not covered by your tuition fee. This may include a laptop, books, or stationery. Additional costs for this course could include professional association fees and travel to placements.

Find out more about the additional study costs that may apply to this course.

SCHOLARSHIPS AND BURSARIES

We offer a range of scholarships and bursaries to help cover tuition fees and help with living expenses while at university.
Scholarships and bursaries you can apply for from the United Kingdom

Select your country or region for more scholarships and bursaries.
# Entry requirements

The qualifications and exam results you’ll need to apply for this course.

NHS Values will be assessed in all areas of an application including UCAS Personal Statement and at interview. For more details, please download our explanation of [Value Based Recruitment](#).

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<th>Your qualification</th>
<th>Requirements</th>
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<td>A levels</td>
<td>A2 Level at BBB from three A2 Levels with at least one Science subject. Applied Science will only be considered when accompanied by another Science A-Level, not Applied. Higher grades may be required from resit students. You may automatically qualify for reduced entry requirements through our <a href="#">contextual offers scheme</a>.</td>
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If you don’t meet the entry requirements, you may be able to complete a foundation year which would allow you to progress to this course.

Available foundation years:
- [Foundation to Human and Animal Health Professions](#)
- (Therapeutic Radiography & Oncology) (Year 0), BSc (Hons)
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| **GCSE**           | About our typical entry requirements  
5 GCSEs at Grades A* – C which must include English Language, Mathematics and Science. Where numerical grading is introduced these subject me be offered at a minimum of Grade 5. English Language, Biology/Human Biology, Mathematics or Physics MUST be offered at Grade C. (Science Dual Award is acceptable). Applied GCSEs will not be considered. |
| **Subject requirements** |  
For applicants from England: Where a science has been taken at A level (Chemistry, Biology or Physics), a pass in the Science practical of each subject will be required. |
| **BTEC Level 3 National Extended Diploma** |  
BTEC nationals are considered in addition to 5 GCSEs grades A* – C, which must include English Language, Maths and a Science. Where numerical grading has been introduced, English Language, Maths and a Science will be required at Grade 5 or above. Please note that Science dual award is acceptable but Core Science and Applied GCSEs will not be considered.  
We will accept one BTEC Level 3 National Extended Certificate at a minimum of Distinction. This must be accompanied by two A2 at Grade B, of which one subject should include Biology/Human Biology, Physics, Maths or Chemistry. Three separate subjects must be taken between the two qualifications.  
BTEC National Diploma in Health and Social Care or Applied Science/ Medical Science graded at DD will be accepted. This must be accompanied by one A Level at grade B. In total, between the two qualifications; two separate subjects must be taken.  
BTEC National Extended Diploma (180 credits) in Health and Social Care or Applied Science/Medical Science at DDD. The student is required to achieve 120 credits out of 180 at Distinction by the end of their second year. The BTEC Level 3 National Extended Diploma and National Diploma must be the 2016 specification. We do not accept the BTEC Nationals (2010, QCF). |
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<tr>
<td><strong>International Baccalaureate</strong></td>
<td>Applicants should normally present with 30 points including 3 Higher Level subjects at minimum Grade 5. Higher Level subjects must include Mathematics and Biology or Physics.</td>
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<td><strong>European Baccalaureate</strong></td>
<td>74% overall with a minimum mark of 8 in Biology and no other subject less than a 6.</td>
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<td><strong>Irish Leaving Certificate</strong></td>
<td>2 subjects at H2 or above to include a science subject (Maths, Physics, Biology, Chemistry) and 4 subjects at H3 or above to include a further science subject and/or Maths.</td>
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<td><strong>Scottish Certificate of Education</strong></td>
<td><strong>Advanced Higher/Higher Level</strong> Accepted in addition to five national 5’s graded upper A – C, which must include English Language, Mathematics and a Science subject. A minimum of five B’s from any combination of Advanced Higher/Higher Level. Consideration will only be given to Advanced Highers in different subjects to those of Highers level subjects offered.</td>
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<td><strong>Welsh Baccalaureate Advanced</strong></td>
<td>Not accepted</td>
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<td><strong>Cambridge Pre-U Diploma</strong></td>
<td>Will be considered</td>
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<td><strong>Access</strong></td>
<td>Essential: 45 credits at Level 3 (all should be new learning, i.e. GCSE awards cannot be APL’d against the Diploma). 30 credits passed at distinction (which must include a minimum of 15 credits in modules relating to Biology, Maths and Physics). The remaining 15 credits must be passed at merit or higher. 5 GCSE subjects graded A*-C and must include: English Language, Mathematics and Science</td>
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<tr>
<td>Academic Reference</td>
<td>An academic reference must be included within the UCAS application. If the applicant is a graduate and has been working since graduating (within three years), an employer reference is acceptable.</td>
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<td>Profession-specific knowledge and skills required</td>
<td>The UCAS Personal Statement, must demonstrate an understanding of the Therapeutic Radiography &amp; Oncology role. Applicants should also consider visiting a Diagnostic Radiography Department to give them an awareness of the differences between the Diagnostic and Therapeutic Radiography professions. Applicants should have an appreciation of the demands of the programme and a realistic understanding of what is required when on clinical placement. Having experience of working with the general public, children, the elderly or people with disabilities, in a paid or voluntary capacity will strengthen an application.</td>
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<td>Declaration of criminal background</td>
<td>You will understand that as a health sciences student, and when you qualify, you will be asked to treat children and other vulnerable people. We therefore need information about any criminal offences of which you may have been convicted, or with which you have been charged. The information you provide may later be checked with the police. If selected for interview you will be provided with the appropriate form to complete.</td>
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<td>Health screening</td>
<td>The University and the School of Health Sciences has an obligation to undertake health screening on all prospective healthcare students. Any offer of a place to study is conditional on completion of a health questionnaire and a satisfactory assessment of fitness to train from the University’s Occupational Health Service. This will include some obligatory immunisations and blood tests.</td>
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Your qualification | Requirements
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About our typical entry requirements

International qualifications

Select your country or region to view specific entry requirements.

Many countries have a different education system to that of the UK, meaning your qualifications may not meet our entry requirements. Completing your Foundation Certificate, such as that offered by the University of Liverpool International College, means you're guaranteed a place on your chosen course.

ALTERNATIVE ENTRY REQUIREMENTS

- If your qualification isn't listed here, or you're taking a combination of qualifications, contact us for advice
- Applications from mature students are welcome.

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