Health Sciences
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Why choose Health Sciences at Liverpool?

We draw on more than 100 years of teaching delivered by dedicated staff with real-world, practical experience and are the hub for an extensive network of professionals, academics and researchers. You can be confident that a degree from the School of Health Sciences will prepare you for a lifelong career making a difference in today’s multidisciplined, patient-focused healthcare services.
Strengthen your career prospects
Benefit from our experience in delivering more than 100 years of teaching across practical and professionally focused programmes.

Learn from experienced, registered, working practitioners
Our curriculum is developed and assessed by leading healthcare providers throughout the North West. Many such partners across the North West provide exciting placement opportunities.

Bring your learning to life through clinical experience
Gain a breadth of patient-focused practical experience in a region with a particularly diverse population, providing an invaluable insight to future roles.

Prepare for practice by studying with professionals from across the Health Sciences
Interprofessional learning modules reflect the multi-profession, team approach that you will encounter in today’s healthcare settings.

Study abroad
Studying abroad has huge personal and academic benefits, as well as giving you a head start in the graduate job market. Occupational Therapy, Physiotherapy and Nursing students can currently apply to undertake clinical placements abroad. In Year Two for Diagnostic Radiography students and Year Three for Radiotherapy students, you will be able to apply to undertake a two week elective abroad (self-funded). For more information visit liverpool.ac.uk/goabroad

Languages at Liverpool
Studying a programme within Health Sciences allows you to study a language as an extracurricular course, on top of your degree. See liverpool.ac.uk/languages for more information.

How you learn
Learning is promoted through a wide variety of activities which enables students to become autonomous and independent learners. An award winning team-based learning approach features in many of the modules. Interactive lectures, practical and clinical skills group work, directed study, role play, problem-based learning, small group work, student-led seminars, collaborative project work and interactive tutorials are key learning strategies of the programmes.

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

Depending on which programme you study, you will take part in different practical work which may include using our imaging suite digital equipment, 3D virtual reality radiotherapy facility, the Clinical Skills Resource Room or the Human Anatomy Resource Centre to complement teaching activities.

Those studying Diagnostic Radiography or Occupational Therapy will take part in problem-based learning to cover patient centred scenarios and collaborative projects are often used to teach research and evidence-based practice.

322 first year students (2018).
How you are assessed
Using a mixture of coursework and examination, a range of assessment methods can be seen across the programmes. These include seen and unseen written examinations, essay assignments, multiple choice questions, case study presentations, video analysis and interactive practical examinations.

Assessment of the work-based learning element of all programmes is an important aspect. You will be required to communicate your views orally and in written form; analyse, implement and evaluate your practice through reflection; 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 students to demonstrate their intellectual abilities in all areas to the full.
Invest in your future

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) or the Nursing and Midwifery Council (NMC). You can look forward to a career in the National Health Service, Social Services or the private sector.

You will have gained a qualification that meets the Government’s criteria for ‘fitness for purpose’ and ‘fitness for practice’ as well as developing transferable skills such as communication, information technology, problem solving and teamwork.

**Diagnostic Radiography**
A recent National Student Survey awarded Diagnostic Radiography 100% for student satisfaction (NSS 2018). On graduation from this programme you are eligible for registration with the Health and Care Professions Council (HCPC) and the Society and College of Radiographers (SCoR). You will belong to a well-respected profession, at the forefront of modern medicine. The programme is internationally recognised and has a 100% undergraduate employment record, with opportunities in both the NHS and private sector. You will enjoy excellent job satisfaction in a rewarding progressive career.

**Occupational Therapy**
Occupational Therapy graduates are eligible to apply for membership of the Health and Care Professions Council (HCPC), the Royal College of Occupational Therapists (RCOT) and the World Federation of Occupational Therapy (WFOT) to work outside the UK. Your qualification allows opportunities to build a career in the NHS, Social Services, and independent third sector employers. Successful completion of the programme will allow you to work in a range of specialist services with people of all ages to support them to address the psychological, physical, cognitive, social and environmental challenges which impact on their day to day functioning.

**Nursing**
On completion of the degree, Nursing graduates will be eligible for registration with the Nursing and Midwifery Council. There are many reasons you should consider a career as an adult nurse. It offers you the chance to make a difference, a high degree of flexibility and a career with excellent employment prospects. Your nursing career will mean working with adults of all ages. They may suffer from one or more long or short-term physical health conditions. This could include heart disease, injuries from an accident, pneumonia, arthritis, diabetes or cancer. This programme has an excellent record of graduate employment, and is well respected and valued in the UK and internationally.

**Orthoptics**
Orthoptic graduates are eligible to apply for statutory registration with the Health and Care Professions Council (HCPC). Most graduates choose to work in the National Health Service as an orthoptist in an eye care team. However, there are opportunities to progress within your role as an orthoptist in a number of additional extended roles and advanced practice such as stroke, age-related macular degeneration, glaucoma and special educational needs. There may also be opportunities to work in a private clinic or even abroad due to the international high recognition of the qualification. Overall, this programme offers graduates a rewarding career as an autonomous practitioner and part of the health care team with an excellent record of graduate employment.
Physiotherapy
Physiotherapy graduates are eligible to apply for membership of the Health and Care Professions Council (HCPC) and the Chartered Society of Physiotherapy. There are many employment opportunities for physiotherapists to work in a wide range of clinical settings, from paediatrics to older persons’ care. Many graduates choose to work in the NHS, but others may decide to find employment in industry, private practice, sport, research or teaching. Your UK qualification also provides an opportunity to work abroad in many countries.

Therapeutic Radiography and Oncology
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 will be a respected health professional in one of the most rewarding and stimulating health professions and will be eligible to apply for statutory registration with the Health and Care Professions Council (HCPC) and become a member of the Society of Radiographers. This programme has an excellent record of graduate employment within the NHS and our graduates are well respected and valued in the UK and internationally.

One of the things I find most interesting about Diagnostic Radiography is the placement, which offers new experiences every day. When you go into the hospital you never quite know what you are going to come across, you meet new people and new challenges – and every day your technique and communication skills develop. One of the benefits of Liverpool is that it offers you the placement experience on top of sound academic training in the first and second years.

Leonardos Papadopoulos
Diagnostic Radiography BSc (Hons)
Programmes at-a-glance

<table>
<thead>
<tr>
<th>Programme</th>
<th>UCAS Code</th>
<th>Programme Length</th>
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<tbody>
<tr>
<td>Diagnostic Radiography BSc (Hons)</td>
<td>B821</td>
<td>3 years</td>
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<tr>
<td>Nursing BN (Hons)</td>
<td>B700</td>
<td>3 years</td>
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<tr>
<td>Occupational Therapy BSc (Hons)</td>
<td>B920</td>
<td>3 years</td>
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<td>Orthoptics BSc (Hons)</td>
<td>B520</td>
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<td>Physiotherapy BSc (Hons)</td>
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<tr>
<td>Therapeutic Radiography and Oncology BSc (Hons)</td>
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<td>1 year</td>
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See liverpool.ac.uk/study/undergraduate/courses for current entry requirements.

Diagnostic Radiography BSc (Hons)
UCAS code: B821
Programme length: 3 years

This is a vocational programme with approximately 50:50 ratio theory to practice.

The programme will prepare you personally and professionally, for the role of a competent caring radiographer, within the diagnostic imaging department. You will gain the knowledge and skills, to undertake a comprehensive range of radiographic techniques needed for first post competencies working in the modern healthcare sector.

You will develop an awareness of anatomy, physiology and pathology, using radiographic and cross sectional images, along with an understanding of radiological science, associated with medical imaging and radiation protection. You will also acquire an appreciation of research methods with respect to diagnostic radiography and the importance of evidence-based practice in relation to the profession.

Programme in detail

This vocational programme is delivered in both the university academic setting and at clinical placement sites throughout the region. As a student, you will be allocated a hospital placement to attend in several clinical blocks, throughout each of the three years. The focus of each of these placements is closely linked to the academic modules, which are taught using a variety of student centred teaching styles including traditional lectures and small group tutorials. You will also have the opportunity to engage in the award winning team based learning (TBL) approach, an internationally recognised effective teaching method, well evaluated by our current students. You will participate in problem-based learning, where discussions around ‘patient-specific’ scenarios help to enhance your understanding of related issues. You will also be involved in interprofessional learning, which features in all three years of the programme and assists you in understanding the multidisciplinary team (MDT) approach to healthcare.
The modules, which are delivered at the University, follow four strategic themes. These include: patient centred radiographic practice, anatomy, physiology and pathology, radiation science and research methods. There is an onsite imaging suite and CT scanner to assist in the delivery. All modules are compulsory and must be successfully completed before progression to the next year of study.

A continuous clinical assessment scheme, linked to the radiographic practice modules is used in the clinical sites, to record your clinical performance and give you regular feedback, which will enhance your clinical learning. The information is stored on an iPad, which will be for you to use throughout the duration of the programme.

During the programme, you will also have the opportunity to enrich your clinical experience by undertaking an elective placement in an imaging department of your choice, which can be locally, nationally or internationally.

**Year One**

Year One will equip you with foundational knowledge and skills, which will be developed in the subsequent years of the programme. The modules in this year follow the previously mentioned themes; patient centred radiographic practice, anatomy, physiology and pathology, radiation science and research methods.

On completion of the first year, you will be able to:

- Undertake radiographic examinations, appropriate to Year One in a safe, competent and effective manner
- Demonstrate an understanding of the radiographic skills needed for Year One
- Describe and explain anatomical structure and physiological function of the human body
- Describe and explain the workings of the x-ray tube in creating radiographic images
- Recognise the physical, psychosocial and environmental factors which influence the patient radiographer interaction
- Show the development of independent learning strategies.

**Core modules**

- Anatomy and patho-physiology of the appendicular skeleton (DRAD101)
- Anatomy and patho-physiology of the axial skeleton and abdominal cavity (DRAD106)
- Anatomy and patho-physiology of the respiratory and cardiovascular system (DRAD102)
- Fundamentals of research methods in diagnostic radiography (DRAD104)
- Patient centred care and radiography practice I (DRAD105)
- Radiographic science and radiation protection (DRAD103).

**Year Two**

The aim of Year Two is to consolidate the learning experiences from Year One and extend them further to provide a foundation for more complex examinations involving specialist equipment. Professional practice will inspire students to become increasingly autonomous, encouraging an appreciation of the challenging issues relating to healthcare.

On completion of Year Two, you will be able to:

- Select and perform appropriate imaging examinations to assist in the diagnosis of the patient’s condition
- Describe and explain the variety of factors, which contribute and impact upon patient imaging investigations
- Show the development of an independent, critical approach to problem solving in the clinical setting.

**Core modules**

- Applied research methods in diagnostic radiography (DRAD204)
- Independent study (DRAD202)
- Multi-modality imaging of body systems (DRAD203)
- Patient centered care and radiography practice II (DRAD205)
- Radiation science and advanced imaging technologies (DRAD201).

Continued over...
Year Three
The aim of Year Three is to expand your knowledge of the specialist clinical areas and to promote a level of independence and professional responsibility in preparation for graduation and registration with the Health and Care Profession Council (HCPC). As a qualified diagnostic radiographer you can become a member of the Society of Radiographers.

On completion of this year, you will be able to:
- Demonstrate a critical approach to the management of imaging investigations in order to meet the needs of the patient
- Evaluate the contribution of diagnostic imaging and other healthcare roles within the multidisciplinary team (MDT) in the management of the patient
- Recognise the responsibility of the radiographer in actuating radiation protection measures and complying with the relevant legal requirement
- Describe and explain the policy and management issues involved in providing a diagnostic imaging service
- Establish a professional approach and attitude to the practice of diagnostic imaging.

Core modules
- Dissertation (DRAD301)
- Medical imaging pathways (DRAD302)
- Patient centred care and radiography practice III (DRAD304)
- Preliminary clinical evaluation (DRAD303).

See pages 18-28 for module descriptions.

For more information on Diagnostic Radiography contact the Department on: E: shs@liverpool.ac.uk or T: +44 (0)151 794 5712/9490/5901.

Nursing BN (Hons)
UCAS code: B700
Programme length: 3 years

The overall aim of this programme is to equip you with all the knowledge, skills and attributes you will need to meet the challenges of being a nurse in the changing context of healthcare and to succeed in the modern National Health Service.

This degree provides students with lifelong learning and working opportunities as well as a strong focus on nursing leadership. You will gain valuable theoretical knowledge alongside practical experience. The cohorts are small and this helps to ensure that our students receive the support they require to help them to get the best out of the programme.

Throughout the three years, you will gain extensive clinical experience in a variety of different settings, including hospital wards, clinics, community settings, critical care and palliative care. There is a global placement incorporated into Year Two to identify the public health needs of communities both in local and global settings.

Programme in detail
The Bachelor of Nursing degree concentrates on caring for individuals with diverse physical and mental health conditions; the degree also concentrates on the supportive role of the nurse with families of individuals being cared for. The degree will prepare you to practice as a knowledgeable, caring and compassionate nurse, competent in professional and ethical practice, care delivery, care management and personal and professional development.

The taught modules will include Physiology, Pathophysiology, Behavioural sciences, Research, Critical care, Public health, Communication and clinical skills, incorporating skills associated with curative, rehabilitative and palliative care. A flexible approach to practice learning will allow individual students to achieve outcomes in a variety of settings at different points throughout each level. You will be well supported in both academic and practice learning environments.
Throughout the three years, students gain extensive clinical experience in a variety of different settings, including hospital wards, clinics, community settings, critical care and palliative care. There is also the opportunity, in Year Two, to work abroad, which makes up the practice placement for one of the modules looking at public health. Each year incorporates the award of credit for practice learning.

Year One
In the first year of the programme you will learn about the art and practice of nursing. You will undertake two 12-week practice learning placements and eight theoretical modules in this year. Year One nursing students will engage in shared learning with other students from the School of Health Sciences. Shared-learning in the first year focuses on physiology, behavioural sciences and ethics.

Core modules
- Introduction to clinical care I (NURS120)
- Introduction to clinical care II (NURS121)
- Introduction to nursing and healthcare (NURS122)
- Learning in higher education (NURS124)
- Physiology for health II (NURS126)
- Physiology for health professions I (HEAL114)
- Practice module I (NURS125)
- The practice of nursing care I (NURS123).

Year Two
In Year Two you will study seven modules which will help you to gain a broader understanding of nursing and healthcare. The modules explore topics such as public health, complex care and research. The two practice placements in Year Two will help you to care for people in a range of care settings. As part of the practice learning opportunity, you will spend four weeks exploring the cultural and social factors that impact on health and ill-health. You can elect to gain this experience within the UK, or overseas.

Please note: you will have to meet all the financial costs, including travel and accommodation, when undertaking this part of the programme.

Core modules
- Complex care (NURS223)
- Developing research skills for evidence-based practice (NURS224)
- Enhancing clinical care I (NURS220)
- Enhancing clinical care II (NURS221)
- Practice module II (NURS226)
- Public health (NURS225)
- The practice of nursing care II (NURS222).

Year Three
You will study five modules in the final year of the programme. A combination of theoretical modules and practice learning opportunities will help you to become a nurse with leadership skills, intellectual ability and proficiency to practice in the adult field of nursing. The topics you will explore include leadership, management, critical care and research. You will undertake two practice learning placements of 10-week and 12-week durations.

Core modules
- Consolidating clinical care and professional practice (NURS320)
- Consolidating research skills for evidence-based practice (NURS323)
- Critical care (NURS321)
- Leadership and management (NURS322)
- Practice module III (NURS324).

See pages 18-28 for module descriptions.

Please note: in line with the Nursing and Midwifery Council’s Standards framework for nursing and midwifery education, introduced in 2019, a new Bachelor of Nursing curriculum will run from September 2020.

For more information on Nursing contact the Department on: E: shs@liverpool.ac.uk or T: +44 (0)151 794 5712/9490/5901.
The Occupational Therapy programme at Liverpool will equip you with a range of both academic and practical skills for a rewarding career that enhances the quality of life for a variety of people encountering physical, emotional and social difficulties.

You will be taught by respected academics with a breadth of clinical and research experience and will graduate with up-to-date knowledge. You will learn about the human body and use the impressive Human Anatomy Resource Centre. This knowledge will help you learn about disease and disability and how they impact on the ability to engage in everyday meaningful occupation.

Throughout the three years you will undertake clinical placements. We have extensive connections with a diverse range of clinical specialties in physical and mental health and learning difficulties, for all age groups from young children to the elderly, in our student placements. There are also opportunities for you to study abroad.

More than 1,000 hours of clinical experience, together with the theoretical knowledge gained from the programme, will enable the Liverpool graduate occupational therapist to competently analyse the psychosocial, physical and environmental factors in the lives of the people in their care and devise appropriate interventions to help them.

The programme is approved by the Health and Care Professions Council (HCPC) and is accredited by the Royal College of Occupational Therapists (RCOT). The programme also has approval from the World Federation of Occupational Therapy (WFOT). Recognition of the programme by the RCOT and WFOT are important for graduates seeking international job opportunities.

Programme in detail
During your three years you will engage in modules which are framed within four themes. These themes explore the person, occupation and environment relationship, which is a core underpinning philosophy for the practice of occupational therapy. They are:

- Core concepts and skills
- Professional identity
- Society and well-being
- Evidence for practice.

As a requirement for qualification you will experience a minimum of 1,000 hours practice placement education. Placements are integrated within each of the three years of the programme and are undertaken in a variety of health and social care settings.

It may be possible to undertake a placement overseas as an elective personal choice in Year Three or as part of international agreements with other universities. Studying abroad has huge personal and academic benefits, as well as giving you a head start in the graduate job market. For more information, visit liverpool.ac.uk/goabroad

The aims of Year One are to provide you with the opportunity to:

- Develop an understanding of the concept of ‘person’ as it relates to health and well-being
- Explore and experiment with the use of occupation as a therapeutic medium
- Demonstrate basic self-awareness and communication skills
- Demonstrate an understanding of normal biological and behavioural functioning that contributes to human lifespan
- Apply systematic problem-solving approaches to rehabilitation
- Develop critical appraisal skills
- Develop skills to inform occupational therapy practice and engage with research literature.

Core modules
- Concepts of inclusive practice (OCCU136)
- Evidence for practice in occupational therapy I (OCCU174)
- Foundations of occupational performance (OCCU116)
Foundation sciences for occupational therapy (OCCU115)
Occupational therapy core skills I (OCCU111)
Professional practice in context (OCCU120).

Year Two
The aims of Year Two are to provide you with the opportunity to:
- Demonstrate an understanding and evaluation of the philosophy and theory of occupation and occupational therapy
- Appreciate the importance and implications of a multicultural society
- Demonstrate an understanding of research methodology and the importance of evidence-based practice
- Apply core skills of occupational therapy
- Develop a well-being plan to promote health and well-being through engagement in occupation
- Demonstrate the ability to work both autonomously and collaboratively.

Core modules
- Critical appraisal for evidence-based practice (OCCU240)
- Developing professional identity (OCCU220)
- Educational programmes for health and well-being (and Pp4) (OCCU237)
- Occupational performance across the lifespan (OCCU210)
- Occupational therapy core skills II (OCCU215)
- Well-being through occupation (OCCU236).

Year Three
The aims of Year Three are to provide you with the opportunity to:
- Consolidate an understanding of the relationship between person, occupation, environment and well-being
- Demonstrate creativity, innovation and entrepreneurship through the application of technology to practice
- Demonstrate competent acquisition of the basic professional skills
- Make explicit the acquisition of professional standards of practice.

Core modules
- Creativity and innovation (OCCU332)
- Environment and occupational performance (OCCU330)
- Service commissioning for occupational therapists (OCCU325)
- Systematic review (OCCU340)
- Transition to newly qualified occupational therapist (and Pp6) (OCCU320).

See pages 18-28 for module descriptions.

For more information on Occupational Therapy contact the Department on: E: shs@liverpool.ac.uk or T: +44 (0)151 794 5712/9490/5901.

Orthoptics BSc (Hons)
UCAS code: B520
Programme length: 3 years

The Orthoptics programme aims to develop your knowledge of how the vision system works, binocular vision involving how the eyes work together, and eye movement systems including the importance of assessing ocular motility.

In addition, you will focus on the fundamentals of the nervous system, neuro-anatomy and physiology, and where it relates to the practice of orthoptics. This background knowledge will enable a graduate orthoptist to perform as a competent and reflective practitioner and be a valuable member of the eye care team.

The Orthoptic programme will equip a graduate with the skills to diagnose and manage conditions which may present in a range of patients from infants to the elderly, eg strabismus (eye misalignments), amblyopia (sometimes called lazy eye), traumatic injuries, tumours, head injuries, diabetes and strokes.
Programme in detail
Throughout the three years, three themes provide the framework for student studies, in all cases linking theoretical knowledge to clinical conditions. The first theme ‘Orthoptic Clinical Practice and Theory’, consists of modules delivering the necessary theory and clinical skills to develop a competent orthoptist, including the physiology of vision, eye movements and binocular vision. The clinical component is delivered in part at the University, but also on clinical placements.

Another theme is ‘Ophthalmology’, this theme reflects the changing role of the orthoptist, from being involved purely in strabismus (eye misalignment) to their involvement in other aspects of ophthalmology. This includes the underpinning anatomy and physiology, characteristics, investigation and management of conditions such as glaucoma, cataracts, macular degeneration, and diabetic retinopathy in both adults and children.

The final theme is ‘Research’, this theme introduces the student to basic concepts of types of data and presentation, study design and an introduction to research ethics. This builds during the programme with interpretation of data, critical appraisal, the opportunity to undertake a research study in Year Two and completion of a literature review in Year Three.

The three themes are supported by modules covering content that is critical to aid understanding, these include Professionalism and scholarship, Visual optics, Anatomy, physiology and normal development and Professionalism and holistic healthcare for orthoptists (involving behavioural science and public health). In addition, there is a specific module covering exemptions to enable graduates to be eligible to have annotated HCPC registration with exemptions for the sale, supply and administration of medicines.

Year One
In Year One, a wide range of factual knowledge and basic clinical skills are developed. The whole of Semester One is spent in the University. This enables you to develop core knowledge and skills and more specifically the knowledge required to undertake orthoptic practice via profession-specific modules. This provides preparation for the professional practice placement observation week which occurs prior to the second semester. During Year One, you will learn about the basic principles of eye movement systems and binocular vision, be able to undertake essential orthoptic assessments and have a total of seven weeks clinical placement.

Core modules
- Anatomy, physiology and normal development (ORTH139)
- Clinical and theoretical orthoptics 1.1 (ORTH137)
- Clinical and theoretical orthoptics 1.2 (ORTH140)
- Ophthalmology I (ORTH142)
- Professionalism and holistic healthcare for orthoptists (ORTH141)
- Professionalism and scholarship (ORTH104)
- Visual optics (ORTH138).

Year Two
In Year Two, you will learn to apply the knowledge gained in Year One to a wide range of clinical scenarios. Additionally, you will also gain the fundamental knowledge to enable you to use medicines under exemptions within the orthoptic scope of practice. You will continue to develop clinical skills at the University and at clinical sites throughout the UK (undertaking a total of 11-weeks clinical placement). Throughout Year Two, you will also learn essential principles for understanding and undertaking research, with the opportunity to undertake an orthoptic based clinical research project.

Core modules
- Clinical and theoretical orthoptics 2.1 (ORTH237)
- Clinical and theoretical orthoptics 2.2 (ORTH240)
- Exemptions for the use of medicines by orthoptists (ORTH230)
- Interpreting the evidence: research methods and statistics (ORTH238)
- Neuroanatomy (ORTH242)
- Ophthalmology II (ORTH235)
- Orthoptic neurology (ORTH236)
- Research study (ORTH241).
**Year Three**

In Year Three, you will focus on an evidence-based practice approach to their clinical care. During this year you will undertake a 12-week clinical placement, where you will prepare to become an autonomous practitioner. On completion of this year, you will be able to:

- Select and use appropriate orthoptic assessment techniques within their own practice accurately
- Devise an orthoptic intervention for a range of patients, and in accordance with established orthoptic standards
- Demonstrate a capacity to advise, with a high-level of autonomy and communication skills, individuals or their carers about management options which will be clinically effective
- Critically evaluate new concepts, arguments and evidence from a range of current theories and research from relevant disciplines and use these to analyse problems in orthoptic practice.

**Core modules**

- Advanced orthoptic theory (ORTH330)
- Clinical visual optics (ORTH332)
- Literature review (ORTH310)
- Orthoptic clinical practice (ORTH335)
- Professionalism and extended role (ORTH334).

See pages 18-28 for module descriptions.

For more information on Orthoptics contact the Department on: **E: shs@liverpool.ac.uk or T: +44 (0)151 794 5712/9490/5901.**

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**Physiotherapy BSc (Hons)**

**UCAS code: B160**

**Programme length: 3 years**

**This demanding, full-time programme teaches you how to diagnose and holistically treat a wide variety of clinical problems.**

The curriculum is designed to reflect current practice with research evidence underpinning all aspects of teaching.

A broad range of learning opportunities ensures that learning is accessible to students expressing different learning styles and preferences. Alongside academic and professional skills you will gain an excellent range of practical experience in a wide range of settings. The programme at Liverpool will encourage you to become independent, resourceful and able to meet the exciting challenges of healthcare today.

**Programme in detail**

The programme adopts a modular approach to the delivery of content. It incorporates both university taught and practice-based components which have been designed together as an integrated whole.

In Year One of the programme you will develop the core skills and knowledge needed for physiotherapy practice in the key themes of musculoskeletal, cardio-respiratory and neuromuscular clinical science.

Year Two focuses more specifically on pathology and the practical application of evidence-based treatment techniques within each key speciality. In Year Three, you will have the opportunity to investigate the context of physiotherapy practice in more depth.

Clinical education is an integral part of the curriculum. The second half of the programme is arranged around blocks of clinical practice that enable you to reinforce and develop professional skills and knowledge in a variety of clinical settings. Our excellent network of local placements brings learning to life.

Continued over...
Key transferable skills are embedded into the curriculum at every level so that individuals are equipped to effectively manage their personal and professional development following graduation.

In the final year, the curriculum provides a variety of preparatory work for job applications assisting students in enhancing their employability.

It may be possible to undertake a Year Three placement overseas at our partner institution in the University of Nebrija, Madrid through the study abroad programme. Studying abroad has huge personal and academic benefits, as well as giving you a head start in the graduate job market. For more information visit liverpool.ac.uk/goabroad

**Year One**
First year studies provide a foundation to profession specific practical skills and core knowledge.

**Focus – Normal structure and function of tissues found within the human body**
- Principle mechanisms underlying healing and repair
- Anatomy and physiology of the musculoskeletal, cardio-respiratory and neurological systems
- Basic handling and movement analysis skills
- Introduces the concept of evidence-based practice and the scientific principles of healthcare research
- Promotes the development of interpersonal skills, especially communication and teamwork
- Promotes the development of independent learning strategies.

**Core modules**
- Cardio-respiratory studies I (PHTY122)
- Foundations of anatomy I (PHTY121)
- Foundations of anatomy II (PHTY125)
- Neuromuscular studies I (PHTY126)
- Personal and professional development I (PHTY115)
- Physiotherapy core skills I (PHTY120)
- Physiotherapy core skills II (PHTY124)
- Research skills (HEAL116).

**Year Two**
You will develop your skills and core knowledge through academic study and practice experience.

**Focus – Pathology**
- Patient assessment
- Patient treatment and management
- Promotes the development of an independent approach to clinical reasoning, problem solving and reflective practice in the practice setting.

**Core modules**
- Cardio-respiratory studies II (PHTY221)
- Musculoskeletal studies (PHTY220)
- Neuromuscular studies II (PHTY222)
- Personal and professional development II (PHTY215)
- Research skills II (PHTY225)
- Specialist physiotherapy practice (PHTY224).

**Year Three**
Promotes greater responsibility for self-management, clinical reasoning and decision making in relation to patient management

- Promotes a critical awareness of current evidence-based practice in physiotherapy
- Enhances awareness of the scope and limits of physiotherapy practice
- Provides an opportunity for in-depth study of a specific area of physiotherapy practice through independent study.

**Core modules**
- Context of physiotherapy practice (PHTY316)
- Personal and professional development IV (PHTY317)
- Personal and professional development III (PHTY315)

See pages 18-28 for module descriptions.

For more information on Physiotherapy contact the Department on: E: shs@liverpool.ac.uk or T: +44 (0)151 794 5712/9490/5901.
Therapeutic Radiography and Oncology BSc (Hons)
UCAS code: B822
Programme length: 3 years

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.

The Therapeutic Radiography and Oncology programme aims to develop a resilient and adaptive Therapeutic Radiographer. Integral to this aim is a robust clinical skills development and assessment strategy. Our continuous clinical assessment approach will focus on developing clinical skill and confidence through regular, consistent and high quality feedback on performance. Students will be self-directed, confident learners who will engage with their mentors in clinical placement and academic advisors in University, in order to make the most of their feedback through action planning and regular review of progress.

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.

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.

Core modules
- Foundations of radiation oncology and patient care I (Skin) (RADT118)
- Foundations of radiation oncology and patient care II (Breast) (RADT121)
- Preparation for practice I (radiotherapy clinical learning and foundations of professionalism) (RADT123)
- Radiotherapy physics, technology and radiobiology I (RADT114)
- Radiotherapy physics, technology and radiobiology II (RADT151)
- Research methods in radiotherapy (RADT134).

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.

Continued over...
Core modules
- Applied research methods in radiotherapy (RADT221)
- Preparation for practice II (radiotherapy clinical learning and developing professionalism) (RADT234)
- Principles of radiation oncology and patient care III (pelvis) (RADT210)
- Principles of radiation oncology and patient care IV (head, neck and thorax) (RADT220)
- Radiotherapy physics, technology and radiobiology III (RADT214).

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.

Core modules
- Advanced radiation oncology and patient care V (complex cancers) (RADT317)
- Preparation for practice III (radiotherapy clinical learning and advancing professionalism) (RADT334)
- Radiotherapy physics, technology and radiobiology IV (RADT318)
- Radiotherapy research dissertation (RADT312).

See pages 18-28 for module descriptions.

For more information on Radiotherapy contact the Department on: E: shs@liverpool.ac.uk or T: +44 (0)151 794 5712/9490/5901.

Foundation to Health and Veterinary Studies (Year 0)
UCAS codes:
- Dental Therapy BAAW
- Dentistry 0AAW
- Diagnostic Radiography 4ASC
- Medicine 789S
- Nursing Y4AS
- Occupational Therapy 47OH
- Orthoptics P0HG
- Physiotherapy 4RAD
- Radiotherapy 0W21
- Veterinary Science 74JJ

Programme length: 1 year

The University of Liverpool, in collaboration with local FE partners, has developed a Year Zero foundation programme for Home/EU students that leads to access onto a variety of vocational Health Studies programmes. The programme is suitable for students who wish to return to higher education after taking a break from study to enter the workforce.

Students seeking entry to Medicine, Dentistry or Veterinary Science will study at Carmel College, St Helens. Students seeking entry to Diagnostic Radiography, Nursing, Occupational Therapy, Orthoptics, Physiotherapy or Radiotherapy will study at The Sixth Form College, Birkenhead.

Please note: application to this programme is through UCAS (see course codes to left), which is specifically targeted at Home/EU mature and non-traditional students who typically have taken a break from studies.

When applying, you must ensure that you apply for one programme that you wish to progress on to. Multiple applications will be rejected and result in disappointment. We will also not consider applications from applicants who have multiple UCAS applications for a variety of programmes, as this does not demonstrate a clear commitment.

Programme in detail
This is a modular programme and successful candidates have to complete 120 Level 0 credits.

In all modules at Year Zero, the study skills needed for independent study at undergraduate degree level are developed. Students are also introduced to a variety of learning methods, for example, formal taught sessions, workshops and practical laboratory sessions. You will also be assessed using a variety of methods, for example, written assignments, in-class data handling and written and practical examinations to provide a good grounding for vocational programmes.
Modules for the Allied Health Professions and Nursing route:

- Applied psychology for health studies (22.5 credits)
- Biology for health studies I and II (45 credits)
- Foundations of professional studies (15 credits)
- Health and social care for health sciences (22.5 credits)
- Maths for health studies I and II (15 credits).

The **Applied psychology for health studies** module (22.5 credits) provides opportunities to explore the development of cognitive language, social and emotional skills at different stages of the human lifespan. In addition, this module will look at theories of motivation and theories of stress to gain a better understanding of human behaviour.

The **Biology for health studies modules I and II** (45 credits) are common to all pathways. The biology modules provide the basic knowledge of the structure and function of the human body relating to cell structure and function: genetics; respiration; transport; regulation and control; action of drugs; immunity; the eye and the nervous system.

The **Foundation of professional studies** module (15 credits) provides students with the opportunity to develop their knowledge and understanding of the Health and Social Care context of practice for health care professionals.

The **Health and social care module for allied health professions** module (22.5 credits) has been designed to look at health and well-being and will address the questions such as: What is health? What is illness? What factors affect health? How can health be promoted?

**Maths for health studies I and II** (15 credits) provides students on the Allied Health and Nursing route with basic knowledge of mathematical principles that underpin biology, IT and health studies, for example, graphs, statistics and indices.

For further information on how to apply to this programme please contact the Admissions Team on **E: shs@liverpool.ac.uk** or **T: +44 (0)151 794 5712/9490/5901.**
## Core modules overview

### Year One

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy and patho-physiology of the appendicular skeleton <strong>DRAD101</strong></td>
<td>1</td>
<td>15</td>
<td>This module aims to develop the students’ knowledge and understanding of the anatomy, physiology and pathological appearances associated with radiographic imaging of the appendicular skeleton.</td>
</tr>
<tr>
<td>Anatomy and patho-physiology of the respiratory and cardiovascular system <strong>DRAD102</strong></td>
<td>1</td>
<td>15</td>
<td>This module aims to develop the students’ knowledge and understanding of the anatomy, physiology and pathological appearances associated with radiographic imaging of the respiratory and cardiovascular systems.</td>
</tr>
<tr>
<td>Anatomy and patho-physiology of the axial skeleton and abdominal cavity <strong>DRAD106</strong></td>
<td>2</td>
<td>22.5</td>
<td>To develop the students’ knowledge and understanding of the anatomy, physiology and pathological appearances on projection radiography (X-ray) and cross-sectional imaging, of the axial skeleton and abdominal cavity.</td>
</tr>
<tr>
<td>Anatomy, physiology and normal development <strong>ORTH139</strong></td>
<td>1</td>
<td>15</td>
<td>The module aims to introduce the student to general human anatomy and physiology of the human body. The module further aims to enable students to develop an understanding of the fundamental concepts of childhood development from the embryonic stage to infancy including the principles of genetics and modes of inheritance.</td>
</tr>
<tr>
<td>Cardio-respiratory studies I <strong>PHTY122</strong></td>
<td>1</td>
<td>15</td>
<td>Provides you with the basic knowledge of the anatomy and physiology of the normal respiratory and cardiovascular systems.</td>
</tr>
<tr>
<td>Clinical and theoretical orthoptics 1.1 <strong>ORTH137</strong></td>
<td>1</td>
<td>30</td>
<td>The module aims to introduce the student to the fundamental principles of orthoptics related to the investigation of normal binocular vision, visual function and ocular motility. The module further aims to provide an overview of the ocular, visual pathway, and extraocular muscle anatomy and physiology that underpins practice.</td>
</tr>
<tr>
<td>Clinical and theoretical orthoptics 1.2 <strong>ORTH140</strong></td>
<td>2</td>
<td>30</td>
<td>The module aims to develop the students’ theoretical knowledge and practical skills of the investigation of concomitant strabismus. The module further aims to enable the students to fully investigate all types of concomitant strabismus, accommodative anomalies, refractive errors and amblyopia, and introduce them to research in the context of orthoptic practice.</td>
</tr>
<tr>
<td>Concepts of inclusive practice <strong>OCCU136</strong></td>
<td>1 and 2</td>
<td>22.5</td>
<td>Explores the concept of health and well-being and the implications for occupational therapy practice and the role of creativity and occupation within health and well-being.</td>
</tr>
<tr>
<td>Evidence for practice in occupational therapy I <strong>OCCU174</strong></td>
<td>1</td>
<td>15</td>
<td>The module aims to inspire students to seek evidence to inform occupational therapy practice and engage with the research literature.</td>
</tr>
<tr>
<td>Foundations of anatomy I <strong>PHTY121</strong></td>
<td>1</td>
<td>15</td>
<td>Provides you with the opportunity to develop anatomical knowledge of the normal structure and organisation of the lumbar spine and lower limb. It also gives you the opportunity to apply knowledge of functional anatomy in order to develop practical skills.</td>
</tr>
</tbody>
</table>

*Modules are not available across all programmes, please check programme specific modules lists on pages 6-17.*
<table>
<thead>
<tr>
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<th>Semester</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Foundations of anatomy II PHTY125</td>
<td>2</td>
<td>15</td>
<td>Provides you with the opportunity to develop anatomical knowledge of the normal structure and organisation of the cervical and thoracic spine and upper limb. Also gives you the opportunity to apply knowledge of functional anatomy in order to develop practical skills relevant to the cervical and thoracic spine and upper limb, and to consolidate, and further develop, handling skills.</td>
</tr>
<tr>
<td>Foundations of occupational performance OCCU116</td>
<td>2</td>
<td>15</td>
<td>Provides an understanding of occupation and occupational performance of an individual.</td>
</tr>
<tr>
<td>Foundations of radiation oncology and patient care I (skin) RADT118</td>
<td>1</td>
<td>15</td>
<td>This module introduces you to human anatomy and physiology relevant to the development of non-melanoma skin cancers and potential routes of spread. You will explore the patient pathway from presentation to post-treatment support for a patient diagnosed with a non-melanoma skin cancer.</td>
</tr>
<tr>
<td>Foundations of radiation oncology and patient care II (breast) RADT121</td>
<td>2</td>
<td>22.5</td>
<td>Using a breast cancer patient case, you will be introduced to human anatomy and physiology, in relation to the development of breast cancers and potential routes of spread. You will discuss the role of radiotherapy in the management of breast cancer. By studying the patient journey you will be able to explain the practical and holistic care needs of a patient with breast cancer and the role of the Therapeutic Radiographer in the multidisciplinary team providing care.</td>
</tr>
<tr>
<td>Foundation sciences for occupational therapy OCCU115</td>
<td>1 and 2</td>
<td>30</td>
<td>Develops core knowledge of foundation sciences with the main focus on anatomy and neuroanatomy to underpin occupational therapy practice.</td>
</tr>
<tr>
<td>Fundamentals of research methods in diagnostic radiography DRAD104</td>
<td>2</td>
<td>15</td>
<td>The aims of this module are to provide the student with the knowledge and skills in research as applied to diagnostic radiography and in the wider context of the NHS. To develop students’ understanding of the need for an evidence base to guide the decision-making process in diagnostic radiography to underpin patient care and patient outcomes.</td>
</tr>
<tr>
<td>Introduction to clinical care I NURS120</td>
<td>1</td>
<td>22.5</td>
<td>Introduces the knowledge and skills to promote and provide effective, safe, evidence-based care; to develop effective diagnostic and decision-making skills and to prepare autonomous, accountable, graduate nurses.</td>
</tr>
<tr>
<td>Introduction to clinical care II NURS121</td>
<td>2</td>
<td>7.5</td>
<td>Builds upon the foundational nursing skills introduced in Introduction to clinical care I and developed during the first practice placement.</td>
</tr>
<tr>
<td>Introduction to nursing and healthcare NURS122</td>
<td>1</td>
<td>15</td>
<td>Introduces the professional, legal, ethical and therapeutic dimensions of nursing; enables students to understand the care needs of service users through an engagement with the theoretical and professional basis of a nursing career enabling you to understand the therapeutic value of a nursing relationship.</td>
</tr>
<tr>
<td>Learning in higher education NURS124</td>
<td>1 and 2</td>
<td>7.5</td>
<td>Enables you to recognise the defining characteristics of learning in higher education and to engage with challenges and opportunities of learning in higher education.</td>
</tr>
<tr>
<td>Neuromuscular studies I PHTY126</td>
<td>2</td>
<td>15</td>
<td>To provide basic anatomical and physiological knowledge of the normal structure and function of the human nervous system.</td>
</tr>
<tr>
<td>Occupational therapy core skills I OCCU111</td>
<td>1</td>
<td>15</td>
<td>Introduces occupational therapy core skills and the profession’s underpinning philosophy.</td>
</tr>
</tbody>
</table>

Please note: modules are illustrative only and subject to change.
### Core modules overview

#### Year One (continued)

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Ophthalmology I ORTH142</strong></td>
<td>2</td>
<td>15</td>
<td>The module aims to develop the knowledge and understanding of the normal development and structure of the eye, delivered in semester one, with an introduction to a range of common ophthalmic problems, including the causes and the disease processes. Students will learn about both paediatric and adult conditions, and the process of detection, investigation and diagnosis.</td>
</tr>
<tr>
<td><strong>Patient centred care and radiography practice I DRAD105</strong></td>
<td>1 and 2</td>
<td>22.5</td>
<td>This module will prepare students to undertake basic imaging techniques of the appendicular skeleton, abdomen and chest. Students will develop the knowledge and skills to promote and provide effective, safe, evidence-based practice. This module will provide the opportunity for the student to develop personally and professionally through reflection.</td>
</tr>
<tr>
<td><strong>Personal and professional development I PHTY115</strong></td>
<td>1 and 2</td>
<td>15</td>
<td>To introduce the concept of professionalism and develop an awareness of personal skills and attributes required for both university and future employment.</td>
</tr>
<tr>
<td><strong>Physiology for health professions HEAL114</strong></td>
<td>1</td>
<td>7.5</td>
<td>Provides a knowledge and understanding of basic physiological systems such as respiration and circulation.</td>
</tr>
<tr>
<td><strong>Physiology for health II NURS126</strong></td>
<td>2</td>
<td>7.5</td>
<td>Provides a knowledge of physiology appropriate to their professional requirements; caters for the backgrounds and expectations of the constituent professional student groups; fosters study skills and team-work skills to prepare you to be members of healthcare teams as well as generic skills of information gathering, problem solving and use of information technology.</td>
</tr>
<tr>
<td><strong>Physiotherapy core skills I PHTY120</strong></td>
<td>1</td>
<td>15</td>
<td>Provides you with an understanding of the normal structure, function and healing of tissues. It also develops basic physiotherapeutic treatment and handling skills.</td>
</tr>
<tr>
<td><strong>Physiotherapy core skills II PHTY124</strong></td>
<td>2</td>
<td>15</td>
<td>Introduces principles of mobilising and strengthening exercises. Develops the assessment skills of analysis of movement and measuring outcomes and physiotherapeutic handling skills.</td>
</tr>
<tr>
<td><strong>Practice module I NURS125</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>Provides you with a range of practice placement learning opportunities across all fields of nursing (adult, child, learning disability and mental health); you will develop an understanding of the context of nursing practice across the different fields of nursing.</td>
</tr>
<tr>
<td><strong>Preparation for practice I (radiotherapy clinical learning and foundations of professionalism) RADT123</strong></td>
<td>1 and 2</td>
<td>15</td>
<td>You will develop knowledge and understanding used to practice safe radiotherapy technical skills in accordance with radiation safety legislation and departmental protocols within own scope of practice. You will be introduced to reflective practice and will describe the impact of teamwork in health care and reflect on own clinical, academic and personal development. You will demonstrate appropriate professional attitudes and behaviours towards service users and colleagues consistent with professional body and regulatory requirements.</td>
</tr>
</tbody>
</table>

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Professional practice in context OCCU120</td>
<td>1 and 2</td>
<td>15</td>
<td>Introduces you to the professional practice environment of occupational therapy in order to integrate theory with practice and as a basis for ongoing academic study in line with the Health and Care Professions Council (HCPC) standards and the College of Occupational Therapists (COT).</td>
</tr>
<tr>
<td>Professionalism and holistic healthcare for orthoptists ORTH141</td>
<td>2</td>
<td>15</td>
<td>The module seeks to provide the student with the appropriate knowledge of holistic healthcare issues that are relevant to clinical practice and promote an understanding of the practical application of behavioural science theory. Interprofessional learning will allow students to learn from other health care students and how they might contribute to the care of their patients.</td>
</tr>
<tr>
<td>Professionalism and scholarship ORTH104</td>
<td>1</td>
<td>7.5</td>
<td>This module aims to develop the students’ communication skills and equip them with the appropriate knowledge of professionalism and healthcare ethics relevant to clinical practice in line with requirements of the Health and Care Professions Council (HCPC). The module also aims to equip the students with appropriate study skills for a range of academic work.</td>
</tr>
<tr>
<td>Radiographic science and radiation protection DRAD103</td>
<td>1</td>
<td>30</td>
<td>This module aims to provide students with the knowledge and skills in radiographic science and radiation protection to contribute to their development as safe and competent practitioners within their scope of practice. Students will develop an understanding of their responsibilities under radiation protection legislation comprising Ionising Radiation Regulations 2017 and Ionising Radiation (Medical Exposure) Regulations 2017.</td>
</tr>
<tr>
<td>Radiotherapy physics, technology and radiobiology I RADT114</td>
<td>1</td>
<td>15</td>
<td>This module introduces you to the nature, production, measurement and interactions of electromagnetic radiation and the equipment used in Therapeutic Radiography practice.</td>
</tr>
<tr>
<td>Radiotherapy physics, technology and radiobiology II RADT151</td>
<td>2</td>
<td>15</td>
<td>Building on the knowledge gained in RADT114 you will explore the physical principles, design and clinical use of localisation equipment and technology in radiotherapy departments. You will be introduced to the technology involved in radiotherapy treatment planning and its application in both radical and palliative radiotherapy treatment pathway.</td>
</tr>
<tr>
<td>Research methods in radiotherapy RADT134</td>
<td>2</td>
<td>15</td>
<td>You will be introduced to the key methodological features of a range of common health research designs. The module will enable you to explore the principles of research dissemination and evidence-based practice in Therapeutic Radiography.</td>
</tr>
<tr>
<td>Research skills HEAL116</td>
<td>1 and 2</td>
<td>15</td>
<td>Introduces the general principles of the scientific process of healthcare research.</td>
</tr>
<tr>
<td>The practice of nursing care I NURS123</td>
<td>2</td>
<td>15</td>
<td>Introduces the role of the nurse in meeting the needs of patients and clients across the lifespan in a range of healthcare settings; introduces the concept of assessing, planning, implementing and evaluating evidence-based care interventions for unwell patients across the life-span; promotes partnership working with patients and carers.</td>
</tr>
<tr>
<td>Visual optics ORTH138</td>
<td>1</td>
<td>7.5</td>
<td>The module aims to enable the student to understand physical, geometric and physiological optics that are fundamental to orthoptic practice.</td>
</tr>
</tbody>
</table>

Please note: modules are illustrative only and subject to change.
## Core modules overview
### Year Two

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
<th>Module description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied research methods in diagnostic radiography DRAD204</td>
<td>2</td>
<td>15</td>
<td>This module will further develop students’ knowledge and understanding of research methodology and develop skills in research appraisal, synthesis and interpretation of published evidence. This will enable students to develop an evidence-based approach to professional knowledge.</td>
</tr>
<tr>
<td>Applied research methods in radiotherapy RADT221</td>
<td>2</td>
<td>15</td>
<td>You will further engage in the research process and will be able to search, collate, appraise and interpret the meaning of published research in radiotherapy. You will be encouraged to apply practice placement knowledge and experience to identify a research question relevant to modern radiotherapy practice. You will design a comprehensive research strategy to answer a specific radiotherapy research question.</td>
</tr>
<tr>
<td>Cardio-respiratory studies II PHTY221</td>
<td>1</td>
<td>22.5</td>
<td>Develops your core knowledge, practical skills, problem solving skills and critical thinking in relation to patients with cardiorespiratory problems.</td>
</tr>
<tr>
<td>Clinical and theoretical orthoptics 2.1 ORTH237</td>
<td>1</td>
<td>15</td>
<td>This module aims to develop the students’ knowledge and understanding of concomitant strabismus and amblyopia. The emphasis will be on enabling the student to fully investigate, diagnose and manage all types of concomitant strabismus and accommodative and convergence anomalies.</td>
</tr>
<tr>
<td>Clinical and theoretical orthoptics 2.2 ORTH240</td>
<td>2</td>
<td>30</td>
<td>The module aims to extend the student’s knowledge of the orthoptic investigation and management related to neurological, mechanical and myogenic conditions that can result in incomitant strabismus. The module also aims to develop the orthoptic clinical skills and professionalism required for clinical practice.</td>
</tr>
<tr>
<td>Complex care NURS223</td>
<td>2</td>
<td>15</td>
<td>Introduces the concepts and principles of complex care delivery in long term and palliative care for all service users; explores the role and responsibility of the nurse in the management of long term and palliative care conditions, acknowledging the importance of fairness and equity.</td>
</tr>
<tr>
<td>Critical appraisal for evidence-based practice OCCU240</td>
<td>1</td>
<td>15</td>
<td>Allows you the opportunity to further develop the knowledge, skills and professional attitudes gained at level 1 towards evidence-based practice through the critique of published studies; applies skills in evaluating the quality of research studies through critical appraisal and discussion of contemporary research relevant to occupational therapy.</td>
</tr>
<tr>
<td>Developing professional identity OCCU220</td>
<td>1 and 2</td>
<td>22.5</td>
<td>Explores the concept of personal and professional identity within occupational therapy in line with The College of Occupational Therapists and Health and Care Professions Council standards; develops a knowledge of personal and professional paradigms and the impact on occupations and therapeutic relationships; develops the knowledge, skills and attitudes congruent with level two expectations required for professional practice.</td>
</tr>
</tbody>
</table>

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Developing research skills for evidence-based practice <strong>NURS224</strong></td>
<td>1 and 2</td>
<td>15</td>
<td>Introduces the principles of healthcare research; the policy framework of evidence-based practice; an understanding of the relationship between research and healthcare provision; the concept of critical appraisal.</td>
</tr>
<tr>
<td>Educational programmes for health and well-being (and Pp4) <strong>OCCU237</strong></td>
<td>2</td>
<td>22.5</td>
<td>Applies knowledge of educational approaches to address occupation and health behaviour choices; applies skills gained to develop an evidence-based programme that informs health behaviour choices to address an individual’s health and occupational needs; develops the knowledge, skills and attitudes congruent with level two expectations required for professional practice.</td>
</tr>
<tr>
<td>Enhancing clinical care I <strong>NURS220</strong></td>
<td>1</td>
<td>15</td>
<td>Building on Year One students will develop their knowledge and skills to promote and provide effective, safe, evidence-based care.</td>
</tr>
<tr>
<td>Enhancing clinical care II <strong>NURS221</strong></td>
<td>2</td>
<td>15</td>
<td>Building on Year One this module will facilitate the development of effective diagnostic and decision-making skills to aid the assessment and delivery of nursing care for individuals across the lifespan, experiencing a spectrum of physical and mental health care needs.</td>
</tr>
<tr>
<td>Exemptions for the use of medicines by orthoptists <strong>ORTH230</strong></td>
<td>1 and 2</td>
<td>15</td>
<td>The aim of this module is to provide students with the fundamental knowledge and required competencies in order to use medicines under exemptions within the scope of orthoptic practice.</td>
</tr>
<tr>
<td>Independent study <strong>DRAD202</strong></td>
<td>2</td>
<td>15</td>
<td>Independent study aims to increase the students’ technical knowledge of, and skills in, the selected imaging modality. Students will increase their understanding of the clinical applications of the selected modality, within the context of a specific disease pathway. This module will prepare the student for a potential career path within their selected modality.</td>
</tr>
<tr>
<td>Interpreting the evidence: research methods and statistics <strong>ORTH238</strong></td>
<td>1</td>
<td>15</td>
<td>This module aims to develop understanding of experimental design, and statistics, related to healthcare and medicine. The module further aims to develop skills in critical appraisal of literature.</td>
</tr>
<tr>
<td>Multi-modality imaging of body systems <strong>DRAD203</strong></td>
<td>1</td>
<td>30</td>
<td>This module aims to build on the knowledge and understanding of both gross and microscopic anatomy and patho-physiology of the central nervous system, abdominal and pelvic cavities and spine and pelvis (axial skeleton), on complex multi-modal images encountered clinically at this level of training.</td>
</tr>
<tr>
<td>Musculoskeletal studies <strong>PHTY220</strong></td>
<td>1</td>
<td>30</td>
<td>Develops your core knowledge, practical skills, problem solving skills and critical thinking in relation to the physiotherapy management of common musculoskeletal problems.</td>
</tr>
<tr>
<td>Neuromuscular studies II <strong>PHTY222</strong></td>
<td>1</td>
<td>22.5</td>
<td>Develops your core knowledge, practical skills, problem solving skills and clinical thinking in relation to the physiotherapy management of common neurological problems.</td>
</tr>
<tr>
<td>Neuroanatomy <strong>ORTH242</strong></td>
<td>2</td>
<td>15</td>
<td>The aim of this module is to extend the students’ basic knowledge to a more in-depth understanding of the anatomy of the central nervous system including the brain, brainstem, cranial nerves and their pathways to allow the student to relate this knowledge to neurological aetiologies and neuro-ophthalmological conditions.</td>
</tr>
</tbody>
</table>

Please note: modules are illustrative only and subject to change.
## Core modules overview
### Year Two (continued)

<table>
<thead>
<tr>
<th>Module title</th>
<th>Semester</th>
<th>Credit</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Occupational performance across the lifespan <strong>OCCU210</strong></td>
<td>1</td>
<td>22.5</td>
<td>Integrates and applies knowledge of occupational theory and occupational performance through the occupational therapy process; develops and applies understanding of the occupational therapy process to maximise engagement in occupation across the lifespan.</td>
</tr>
<tr>
<td>Occupational therapy core skills II <strong>OCCU215</strong></td>
<td>1 and 2</td>
<td>22.5</td>
<td>Develops knowledge and understanding of two fundamental occupational therapy core skills (occupation based activity analysis and group work); develops the ability to plan occupational therapy interventions utilising the core skill of occupation based activity analysis and to explore and plan occupational therapy group processes and interventions.</td>
</tr>
<tr>
<td>Ophthalmology II <strong>ORTH235</strong></td>
<td>1</td>
<td>7.5</td>
<td>This module aims to further develop basic knowledge of the anatomy and physiology of the eye and surrounding structures. This module also aims to further develop application of this knowledge to the management of ophthalmic disorders.</td>
</tr>
<tr>
<td>Orthoptic neurology <strong>ORTH236</strong></td>
<td>1</td>
<td>7.5</td>
<td>The module aims to develop the students’ knowledge and understanding of neurological conditions and their medical management. It further aims to develop the students’ knowledge and understanding of the various neuroimaging techniques.</td>
</tr>
<tr>
<td>Patient centered care and radiography practice II <strong>DRAD205</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>This module will further develop the knowledge and skills to promote and provide effective, safe, evidence-based practice and will develop skills for more advanced radiographic techniques. Students will also further develop patient centred skills for individuals across a spectrum of physical, mental health and cultural needs. Clinical practice and reflection will develop autonomy and practice within professional codes and ethico-legal frameworks to provide effective diagnostic imaging services underpinned by professional attitudes that value the human rights and dignity of service users.</td>
</tr>
<tr>
<td>Personal and professional development II <strong>PHTY215</strong></td>
<td>2</td>
<td>22.5</td>
<td>To develop professional specific, generic and transferable skills in practice. Also to develop personal and professional development through reflection.</td>
</tr>
<tr>
<td>Practice module II <strong>NURS226</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>Expands upon the range of experiences within the practice learning environment across all fields of nursing (adult, child, learning disability and mental health); advances the knowledge and skills to enhance the student’s understanding of the context of nursing practice across the fields of nursing.</td>
</tr>
<tr>
<td>Preparation for practice II (radiotherapy clinical learning and developing professionalism) <strong>RADT234</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>You will further develop your knowledge and clinical skills in order to practice safe radiotherapy technical skills in accordance with radiation safety legislation and departmental protocols within own scope of practice. Further development of reflective skills is supported as you analyse the impact of communications skills in health care and reflect on clinical, academic and personal development.</td>
</tr>
</tbody>
</table>

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<tr>
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</tr>
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<tbody>
<tr>
<td>Principles of radiation oncology and patient care III (pelvis) <strong>RADT210</strong></td>
<td>1</td>
<td>30</td>
<td>Using real patient pelvic cancer cases, you will appraise how and why cancers of the pelvis present themselves, and evaluate management options. You will be able to select and justify appropriate techniques for pelvic radiotherapy considering pelvic anatomy and physiology and routes of spread. You will review holistic care needs for patients with pelvic malignancies and appraise the role of the therapeutic radiographer within the multidisciplinary team that provides this care.</td>
</tr>
<tr>
<td>Principles of radiation oncology and patient care IV (head, neck and thorax) <strong>RADT220</strong></td>
<td>2</td>
<td>30</td>
<td>Using real head, neck and thorax cancer cases you will appraise how and why cancers of the head, neck and thorax present themselves, and examine management options. You will be able to select and justify appropriate techniques for head, neck and thorax radiotherapy considering anatomy and physiology and routes of spread. As a compassionate practitioner you will be able to review the holistic care needs and appraise the role of the radiographer within the multidisciplinary team that provides this care. With reference to the patient cases, you will be able to apply radiobiological theory concerning tumour/normal tissue response to both radiotherapy planning and dose/fractionation protocols.</td>
</tr>
<tr>
<td>Public health <strong>NURS225</strong></td>
<td>1 and 2</td>
<td>15</td>
<td>Develops an understanding of the public health agenda within a UK, European and global context; gives an insight into relational social networks within the changing context of healthcare and social provision.</td>
</tr>
<tr>
<td>Radiation science and advanced imaging technologies <strong>DRAD201</strong></td>
<td>1</td>
<td>30</td>
<td>This module aims to prepare students for clinical placements in areas that use more complex imaging equipment. Students will develop their understanding of how the design of that equipment impacts upon staff, patient safety and resultant image quality.</td>
</tr>
<tr>
<td>Radiotherapy physics, technology and radiobiology III <strong>RADT214</strong></td>
<td>1</td>
<td>15</td>
<td>You will be able to identify and explain key principles and concepts for ionising radiation interactions for dosimetry and radiobiology. You will develop a deeper understanding of radiobiological principles, dose-response models and calculations by evaluating different treatment regimes.</td>
</tr>
<tr>
<td>Research skills II <strong>PHTY225</strong></td>
<td>2</td>
<td>7.5</td>
<td>Further develops knowledge of research methods and critical appraisal skills.</td>
</tr>
<tr>
<td>Research study <strong>ORTH241</strong></td>
<td>2</td>
<td>15</td>
<td>This module aims to equip the students with appropriate research skills to work collaboratively on designing and executing a research project, as well as analysing the data and presenting the findings. The module also aims to equip the students with the skills that will enable them to interpret the findings from the project and compare them to the existing literature, identifying any differences and potential sources for variability.</td>
</tr>
<tr>
<td>Specialist physiotherapy practice <strong>PHTY224</strong></td>
<td>2</td>
<td>15</td>
<td>Provides an overview of the common pathologies and holistic management of patients from a variety of specialist areas of physiotherapy.</td>
</tr>
<tr>
<td>The practice of nursing care II <strong>NURS222</strong></td>
<td>1</td>
<td>15</td>
<td>Building on Year One students will explore the role of the nurse in meeting the needs of patients and clients across the life-span in a range of healthcare settings.</td>
</tr>
<tr>
<td>Well-being through occupation <strong>OCCU236</strong></td>
<td>2</td>
<td>15</td>
<td>Studies the relationship between occupation and staying well through life transitions; reflects upon the personal impact upon health and well-being of participating in a non statutory community based activity.</td>
</tr>
</tbody>
</table>

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# Core modules overview

## Year Three

<table>
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<tr>
<th>Module title</th>
<th>Semester</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Advanced orthoptic theory <strong>ORTH330</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>This module aims to develop a reflective practitioner to facilitate the integration of all aspects of the support knowledge necessary to produce a management plan in concomitant and incomitant strabism. The module further aims to provide a forum to facilitate discussion of relevant literature and research supporting orthoptic practice in concomitant and incomitant strabism.</td>
</tr>
<tr>
<td>Advanced radiation oncology and patient care IV (complex cancers) <strong>RADT317</strong></td>
<td>1</td>
<td>30</td>
<td>Using real patient cases you will be able to evaluate critically the management of neurological, metastatic and complex cancers considering anatomy, physiology and routes of spread. Appraising critically the current management approaches for children and young adults with cancer.</td>
</tr>
<tr>
<td>Clinical visual optics <strong>ORTH332</strong></td>
<td>1 and 2</td>
<td>15</td>
<td>This module aims to give students the skills required to carry out subjective and objective refraction. The module also aims to reiterate the importance of the role of the provision of spectacles and the importance of interdisciplinary teamwork in the management of orthoptic patients.</td>
</tr>
<tr>
<td>Consolidating clinical care and professional practice <strong>NURS320</strong></td>
<td>1</td>
<td>30</td>
<td>Building on Year Two students will develop the knowledge and skills to promote and provide effective, safe, evidence-based care. This module will prepare you to be a future nurse leader, with the ability to work in partnership with other health and social care professionals to promote and contribute to evidence-based practice and innovation.</td>
</tr>
<tr>
<td>Consolidating research skills for evidence-based practice <strong>NURS323</strong></td>
<td>1</td>
<td>30</td>
<td>You will produce an extended piece of academic writing focusing on a healthcare topic which is of interest to them.</td>
</tr>
<tr>
<td>Context of physiotherapy practice <strong>PHTY316</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>To develop critical awareness of the multidimensional factors that influence the healthcare professional within the current climate of health care provision.</td>
</tr>
<tr>
<td>Creativity and innovation <strong>OCCU332</strong></td>
<td>1</td>
<td>22.5</td>
<td>Develops an evidence-based opinion on the role of creativity and innovation in occupational therapy practice; explores the impact of creativity and technologies on health and well-being.</td>
</tr>
<tr>
<td>Critical care <strong>NURS321</strong></td>
<td>1</td>
<td>15</td>
<td>Develops a systematic understanding of the key aspects of critical care nursing using best available evidence and observing closely local and national guidelines; critically explores the diverse nature of critical illness to inform the practice of caring for the individual and their family in a critical care environment across a range of service users.</td>
</tr>
<tr>
<td>Dissertation <strong>DRAD301</strong></td>
<td>1</td>
<td>30</td>
<td>The module will enable students to gain independent learning and working skills, practice problem solving and produce a piece of research/audit to enable them to better understand research and evidence-based practice.</td>
</tr>
<tr>
<td>Environment and occupational performance <strong>OCCU330</strong></td>
<td>1</td>
<td>30</td>
<td>Develops skills in assessing an individual’s social, political, cultural, socio-economic and physical environment and critically evaluate the environmental impact on occupational performance; develops skills in modifying aspects of the environment to promote participation; demonstrate knowledge, skills and attitudes required for a competent professional practice level three.</td>
</tr>
</tbody>
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<tr>
<td>Leadership and management <strong>NURS322</strong></td>
<td>1 and 2</td>
<td>15</td>
<td>Develops a critical understanding of issues in professional governance and contemporary concepts in healthcare leadership and management.</td>
</tr>
<tr>
<td>Literature review <strong>ORTH310</strong></td>
<td>1</td>
<td>30</td>
<td>This module will develop the skills that are required in order to conduct and write a critical review of the literature, prior to conducting a piece of scientific research.</td>
</tr>
<tr>
<td>Medical imaging pathways <strong>DRAD302</strong></td>
<td>2</td>
<td>30</td>
<td>This module aims to prepare students in decision making processes related to imaging protocols in the care of a range of service users with complex needs and pathologies. Students will extend their knowledge of the clinical applications of computerised tomography (CT) ultrasound, nuclear medicine and magnetic resonance imaging (MRI).</td>
</tr>
<tr>
<td>Orthoptic clinical practice <strong>ORTH335</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>At the end of this module the student will be expected to have the skills and knowledge to critically evaluate all clinical diagnostic tools in orthoptic practice and from this information formulate management plans. This module will expose students to the work of the other professions involved in the care of their patient in order for them to develop a multi-professional approach to healthcare.</td>
</tr>
<tr>
<td>Patient centred care and radiography practice III <strong>DRAD304</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>The aim of this module is to develop autonomous, reflective, accountable, graduate radiographers who practice within professional codes and ethico-legal frameworks to provide safe and effective diagnostic imaging services underpinned by professional attitudes that value the human rights and dignity of service users. Students will develop skills in complex and challenging clinical situations and environments including trauma and the operating theatre.</td>
</tr>
<tr>
<td>Personal and professional development III <strong>PHTY315</strong></td>
<td>1</td>
<td>30</td>
<td>To develop profession specific, generic and transferable skills in practice. Also to develop personal and professional development through reflection.</td>
</tr>
<tr>
<td>Personal and professional development IV <strong>PHTY317</strong></td>
<td>2</td>
<td>30</td>
<td>To develop profession specific, generic and transferable skills in practice. Also to develop the employability skills of students.</td>
</tr>
<tr>
<td>Practice module III <strong>NURS324</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>Builds knowledge in a range of practice learning environments which require decision-making and advanced clinical skills in complex and unpredictable contexts; consolidates the knowledge and skills required to practise as a registered nurse.</td>
</tr>
<tr>
<td>Preliminary clinical evaluation <strong>DRAD303</strong></td>
<td>1</td>
<td>30</td>
<td>This module will provide the knowledge and skills required for the interpretation of visual information when viewing radiographic images. Students will gain the knowledge and theory to undertake a clinical preliminary review of radiographic images commensurate with their level of study. Students will also be introduced to the medico-legal frameworks surrounding Advanced Practice in imaging.</td>
</tr>
<tr>
<td>Preparation for practice III (radiotherapy clinical learning and advancing professionalism) <strong>RADT334</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>Your clinical knowledge and skills develop further as you prepare for professional practice as a Band 5 Therapeutic Radiographer. You will practice safe radiotherapy technical skills in accordance with radiation safety legislation and departmental protocols to a standard consistent with HCPC registration. You will be able to demonstrate effective communication and patient care skills to a diverse service user population and the multidisciplinary health care team. Your critical reflective skills develop further as you evaluate critically the impact of communication skills in health care and reflect critically on own clinical, academic and personal development.</td>
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</tbody>
</table>

Please note: modules are illustrative only and subject to change.

Continued over...
### Core modules overview
#### Year Three (continued)

<table>
<thead>
<tr>
<th>Module title</th>
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<th>Credit</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Professionalism and extended role <strong>ORTH334</strong></td>
<td>1</td>
<td>15</td>
<td>This module aims to develop the students’ knowledge of ophthalmic conditions including pathology and appropriate investigations and management to provide insight into the extended role of the orthoptist. The module further aims to illustrate the importance of an interdisciplinary approach and teamwork in the management of patients presenting to the ophthalmologist, orthoptist and other health care professionals.</td>
</tr>
<tr>
<td>**Radiotherapy physics, technology and radiobiology IV <strong>RADT318</strong></td>
<td>1</td>
<td>30</td>
<td>You will be able to evaluate the implementation of modern radiotherapy technology within the radiotherapy pathway. By appraising critically the processes that govern safe radiotherapy planning and treatment, you will be able to evaluate radiotherapy treatment plans and predict the effect that image guidance will have on their effectiveness. You will be able to formulate the appropriate course of action when unwanted incidents occur during the radiotherapy planning or technical treatment pathway.</td>
</tr>
<tr>
<td>**Radiotherapy research dissertation **RADT312</td>
<td>2</td>
<td>30</td>
<td>Evidence-based practice is essential in Therapeutic Radiography. As a research active student you will construct a methodology for a literature review or primary research project. You will be able to source and critically evaluate the research literature related to a chosen area of radiotherapy and oncology. You will undertake data analysis and produce an associated piece of critical writing and be supported in its publication and dissemination.</td>
</tr>
<tr>
<td>Research skills Ill – dissertation <strong>PHTY320</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>Enables you to undertake an in-depth, independent piece of study in an area of physiotherapy practice.</td>
</tr>
<tr>
<td>**Service commissioning for occupational therapists <strong>OCCU325</strong></td>
<td>2</td>
<td>22.5</td>
<td>This module enables students to demonstrate knowledge of service commissioning and critically evaluate the process of service commissioning within health and social care. It will also support students to articulate the potential and unique contribution of occupational therapy services. Students have the opportunity to explore gaps in service provision and develop a service proposal to meet the needs of a chosen population.</td>
</tr>
<tr>
<td><strong>Systematic review OCCU340</strong></td>
<td>1 and 2</td>
<td>22.5</td>
<td>Facilitates the knowledge and skills to undertake secondary research to support evidence-based practice.</td>
</tr>
<tr>
<td>**Transition to newly qualified occupational therapist (and Pp6) <strong>OCCU320</strong></td>
<td>1 and 2</td>
<td>30</td>
<td>Prepares you for practice as a newly qualified occupational therapist.</td>
</tr>
</tbody>
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