

# Medical Imaging

Postgraduate Handbook 2022



THE UNIVERSITY OF  
**AUCKLAND**  
NEW ZEALAND

**MEDICAL AND  
HEALTH SCIENCES**  
SCHOOL OF MEDICAL SCIENCES

*Welcome to*

# Medical Imaging at the University of Auckland

On behalf of the Medical Imaging team, I would like to welcome you to the University of Auckland and the postgraduate medical imaging programmes. Medical Imaging is an exciting and rapidly developing field that provides numerous opportunities for prospective students at all levels. Whether you are new to medical imaging, looking to increase your knowledge in a specific area, or an experienced medical imaging technologist looking to further your career, our programmes will guide you in developing the knowledge and skills you need.

With world-class facilities on campus as well as a variety of online and virtual resources, we offer a flexible range of learning options. We also work with clinical facilities across New Zealand to provide you with practical, real-world learning opportunities. Our passionate teaching staff are all experienced medical imaging educators who are ready to support you both online and in person.

By embarking on postgraduate study, you will be building on your own experience and education to further your career in medical imaging. Higher education prepares students for ongoing

learning, encourages curiosity, and develops critical thinking, all of which will benefit you in your medical imaging career and beyond. Whichever direction you choose, our postgraduate programmes will set you up well to advance the medical imaging profession and ultimately promote better health outcomes for all New Zealanders.

All the best,



**DR BEAU PONTRÉ**  
Medical Imaging Programme Director

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**“Excellence is the gradual result of always striving to do better.”** – Pat Riley

**Find out more**

[fmhs.auckland.ac.nz/medical-imaging](https://fmhs.auckland.ac.nz/medical-imaging)

# Our postgraduate programmes

Intended primarily for Medical Imaging Technologists, our postgraduate Medical Imaging programmes are designed to produce graduates who will add to the clinical excellence of New Zealand's health sector and the research strengths of our country.

Our goal is to provide graduates with the knowledge, skills and attributes to enable them to meet the increasing levels of professional responsibility created by a rapidly evolving technological, clinical field.

Our focus is not just on acquiring new knowledge as an essential part of postgraduate education; we also see the development of clinical competence, critical thinking and reflective learning as crucial attributes for modern healthcare practitioners.

We have a range of postgraduate Medical Imaging programmes available - from Postgraduate Certificates and Diplomas, through to a Masters and PhD for students who have already completed a form of postgraduate study.

You'll find a full description of the following programmes in this handbook.

- Postgraduate Certificate in Health Sciences (Medical Imaging)
- Postgraduate Certificate in Health Sciences (Mammography)
- Postgraduate Diploma in Health Sciences (Medical Imaging)
- Postgraduate Diploma in Health Sciences (Magnetic Resonance Imaging)
- Postgraduate Diploma in Health Sciences (Nuclear Medicine)
- Postgraduate Diploma in Health Sciences (Ultrasound)

We also offer the following research degrees, which may be of interest to students who have already completed some form of postgraduate study:

- Master of Health Sciences – MHSc
- Doctor of Philosophy – PhD

## The strengths of our programmes:

- Our teaching and learning is research-led and informed by the latest education theories.
- The majority of our courses are delivered entirely online, so they can be completed from anywhere in the world, at any time, enabling flexibility to suit the student's individual needs.
- Students may progress from individual Certificates of Proficiency through to postgraduate certificate, postgraduate diploma, Masters degree and PhD qualifications.
- Our MRI, ultrasound and nuclear medicine programmes are accredited by the New Zealand Medical Radiation Technologists Board (MRTB) and provide a route to registration.

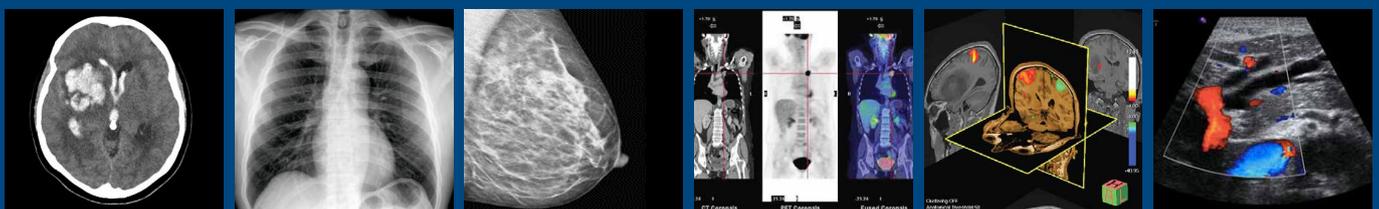
A major feature of postgraduate study is a requirement for self-directed learning. This is achieved through assignments, reading, seminar presentations and online discussions. Study at postgraduate level means making a commitment to both professional and personal development as well as to new and challenging academic work. Postgraduate study is about investigating, analysing, critically evaluating, reflecting and responding to the challenges posed by practice and the academic environment.

All of our postgraduate programmes are predominantly comprised of courses selected from Medical Imaging (MEDIMAGE) and/or Clinical Imaging (CLINIMAG). These courses present the state-of-the-art in each discipline, are research-led and supported by the cutting-edge clinical and educational facilities offered in the faculty.

All MEDIMAGE and CLINIMAG courses are worth 15 points and are available only by distance learning (with the exception of the on-campus ultrasound course CLINIMAG 709). They incorporate a range of learning approaches including videos, webpages and digital resources from the Philson library.

A Medical Imaging orientation workshop is offered at the beginning of each semester for those students new to the University and some courses may include 1-2 day block courses. These are on-campus events and while not compulsory, attendance is highly recommended.

A clinical competency assessment requirement must be successfully completed for the specialty modalities of Mammography, MRI, Nuclear Medicine, and Ultrasound. For the postgraduate diploma programmes, this will enable registration with the Medical Radiation Technologists Board (MRTB) in the appropriate scope of practice.



# Medical Imaging

This programme is designed for Medical Imaging Technologists (MITs) seeking to extend their understanding of Medical Imaging and contribute to the improvement of clinical health services by implementing their knowledge and expertise within Medical Imaging services.

## Our PGCertHSc (Medical Imaging) programme

Many students complete a postgraduate certificate while looking for a clinical training position in MRI, ultrasound or nuclear medicine. These pathways provide the opportunity for students to demonstrate to potential employers their enthusiasm and aptitude for training in these modalities. In addition, should the student obtain a clinical training position within 5 years of completion of this certificate, the courses may be credited towards their postgraduate diploma programme.

To be eligible for admission to this programme, the student needs to have completed an undergraduate qualification in Medical Imaging.

## Schedule of courses

### PGCertHSc (Medical Imaging)

Course Code	Course Name	S1	S2
MEDIMAGE 701	Imaging Anatomy and Pathology	■	■
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■
At least 15 points from the following courses: MEDIMAGE 707-722, CLINIMAG 701-718		Dependent on student choice	
Up to 15 points from courses listed in the Master of Health Sciences Schedule			

### PGCertHSc (Medical Imaging – pre-MRI pathway)

Course Code	Course Name	S1	S2
MEDIMAGE 701	Imaging Anatomy and Pathology	■	■
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■
MEDIMAGE 714	Fundamentals of Clinical MRI	■	■
MEDIMAGE 715	MRI Technology		■

### PGCertHSc (Medical Imaging – pre-ultrasound pathway)

Course Code	Course Name	S1	S2
MEDIMAGE 701	Imaging Anatomy and Pathology	■	■
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■
MEDIMAGE 716	Fundamentals of Clinical Ultrasound	■	■
MEDIMAGE 717	Ultrasound Imaging Technology	■	

### PGCertHSc (Medical Imaging – pre-nuclear medicine pathway)\*

Course Code	Course Name	S1	S2
MEDIMAGE 701	Imaging Anatomy and Pathology	■	■
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■
MEDIMAGE 720	Fundamentals of Clinical Nuclear Medicine	TBA	
MEDIMAGE 708	Nuclear Medicine Technology		

\*This pathway is not available every year - please confirm course schedule prior to commencing by emailing [medicalimaging@auckland.ac.nz](mailto:medicalimaging@auckland.ac.nz)

## Our PGDipHSc (Medical Imaging) programme

This programme is designed for Medical Imaging Technologists (MITs) seeking to extend their understanding of Medical Imaging.

Graduates of the PGDipHSc (Medical Imaging) will be prepared to contribute to the improvement of clinical health services offered to the New Zealand public by implementing their knowledge and expertise within Medical Imaging. Graduates will also be able to advance to Masters level study and contribute to the development of Medical Imaging services through research.

### PGDipHSc (Medical Imaging)

Course Code	Course Name	S1	S2
MEDIMAGE 701	Imaging Anatomy and Pathology	■	■
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■
60 points from MEDIMAGE 703-722, CLINIMAG 701-718		Dependent on student choice	
30 points from courses listed in the Master of Health Sciences Schedule		Dependent on student choice	

Please email the Medical Imaging team to confirm your proposed pathway meets the programme requirements.

The Medical Imaging team

Email: [medicalimaging@auckland.ac.nz](mailto:medicalimaging@auckland.ac.nz)

*“The secret of joy in work is contained in one word – excellence. To know how to do something well is to enjoy it.”*

– Pearl S Buck

**Find out more**

[www.auckland.ac.nz/medical-imaging](http://www.auckland.ac.nz/medical-imaging)

# Mammography

This programme provides a combination of academic and clinical elements ensuring graduates from this programme will be eligible to work for BreastScreen Aotearoa (BSA).

## Our PGCertHSc (Mammography) programme

Graduates of the PGCertHSc (Mammography) will be able to provide high level expertise in breast imaging and may contribute to national breast screening programmes. They will also be able to progress to further study in Medical Imaging.

For admission to this programme, the student must satisfy the Programme Director that they are employed in an appropriate clinical training position. This is a paid position in a mammography practice in New Zealand and it is the responsibility of the student to find and secure this position. Appropriate supervision of the student must also be provided by a qualified and experienced member of staff who is registered in the Medical Imaging scope of practice and holds a current Annual Practising Certificate (APC).

This qualification is a New Zealand Medical Radiation Technologists Board (MRTB) approved pathway for:

- Radiation Therapists to practise in Mammography
- Return to work pathway for Medical Imaging Technologists to return to work in Mammography only.  
(Please note this pathway must be approved by the Board before study is commenced)

## Workplace clinical requirements

In order to develop the necessary technical, clinical and diagnostic skills, students must be exposed to a large number and wide range of mammographic examinations. Completion of the training period will require that the student has experienced a minimum of 300 clinical hours.

Additionally, the minimum total number of mammographic examinations to be recorded is 300, of which no fewer than 200 must be performed without assistance.

Assessment of clinical competency will also occur in the student's workplace throughout the duration of their enrolment within this programme until the completion of CLINIMAG 708 (Mammographic Clinical Practice). Students will not be able to compensate an inadequate clinical assessment with excellent academic work.

## Schedule of courses

### PGDipHSc (Mammography)

Course Code	Course Name	S1	S2
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■
MEDIMAGE 707	Mammographic Technology	■	
CLINIMAG 708	Mammographic Clinical Practice		■
15 points from courses listed in the Master of Health Sciences Schedule		Dependent on student choice	

Find out more

[www.auckland.ac.nz/mammography](http://www.auckland.ac.nz/mammography)

**“After over 10 years of being a full-time mammographer, I still find mammography interesting and technically challenging”**



*“In 2007, I was offered a position in a dedicated mammography centre in Johannesburg. I was fortunate to work with a radiologist who was passionate about breast imaging. As a result, I realised that a mammogram was more than screening and obtaining four images.*

*“We as mammographers have a great responsibility to the women we image to make a scary, uncomfortable experience one they will return for. After over 10 years of being a full-time mammographer, I still find mammography interesting and technically challenging.*

*“I have always enjoyed teaching, and opted to do a Clinical Supervision course as part of my Postgraduate Certificate in Health Sciences (Mammography) at the University of Auckland. In 2017, I followed this with a Postgraduate Certificate in Clinical Education!*

*“Three years ago I became a Clinical Supervisor for BreastScreen Aotearoa, and I find this role very interesting as I watch my student grow and develop, much like watching a baby bird leave the nest! I enjoy establishing a relationship with my student, helping them develop the confidence to seek feedback and become more reflective in*

*their practice. It’s very fulfilling knowing that you have contributed to teaching someone a skill to use throughout their career.”*

## **Fathima Okoroigwe**

Postgraduate Certificate in Health Sciences (Mammography) graduate Fathima Okoroigwe works at BreastScreen Waitematā Northland and is a Clinical Supervisor for the University of Auckland.

***“In 2018 the University of Auckland opened up the postgraduate MRI diploma to individuals with significant health science backgrounds.***

*“Due to my previous qualifications in exercise science and rehabilitation I was eligible to enrol in the course, and I was fortunate enough to be offered a clinical training position at Ascot Radiology.*

*“MRI is a complex imaging modality which has always fascinated me, and I saw this as an excellent opportunity to challenge myself and extend my education in this evolving clinical field. I was drawn to the familiarity of UoA, as it is where I completed previous undergraduate and postgraduate studies. Additionally, the postgraduate MRI diploma has an excellent reputation and is widely recognised internationally.*

*“The academic programme has aligned well with my clinical training thus far. I have found the MRI-specific papers particularly beneficial, and the knowledge gained has been integral for developing my confidence manipulating sequence parameters and making sound clinical decisions.*

*“The online format allows for a self-directed, flexible approach to study, so you can organise your coursework around your clinical training and personal life in a way that suits you best. The online conferences with teaching staff were extremely helpful and supplemented the coursework nicely.*

*“The course coordinators and supporting staff are friendly, helpful and provide an extremely supportive environment for students undertaking the qualification. The orientation at the Grafton campus provided a great opportunity to meet teaching staff and other students on the course, as well as learn how to navigate the online learning portal.”*

## **Caitlin McLean**

**Postgraduate Diploma in Health Sciences (MRI) graduate Caitlin McLean works as an MRI Technologist at Ascot Radiology, Auckland.**



# Magnetic Resonance Imaging (MRI)

This programme provides a combination of academic and clinical elements ensuring graduates from this programme will be eligible for registration with the regulatory body, the New Zealand Medical Radiation Technologists Board (MRTB).

## Our PGDipHSc (Magnetic Resonance Imaging) programme

Graduates of the PGDipHSc (Magnetic Resonance Imaging) will be prepared to contribute to the improvement of clinical health services offered to the New Zealand public by implementing their knowledge and expertise within Medical Imaging, specifically within MRI. Graduates will also be able to advance to Master's level study and contribute to the development of Medical Imaging services through research.

For admission to this programme, the student must satisfy the Programme Director that they are employed in an appropriate clinical training position. This is a paid position in an MRI practice in New Zealand and it is the responsibility of the student to find and secure this position. Appropriate supervision of the student must also be provided by a qualified and experienced member of staff who is registered in the Magnetic Resonance Imaging scope of practice and holds a current Annual Practising Certificate (APC).

For those interested in pursuing a career in MRI and who are NOT Medical Imaging Technologists, please refer to the University of Auckland website for more information:

[www.auckland.ac.nz/pg/mri](http://www.auckland.ac.nz/pg/mri)

## Workplace clinical requirements

In order to develop the necessary technical, clinical and diagnostic skills, trainees must be exposed to a large number and wide range of MRI examinations. By completion of the training period the requirement is that the student has experienced a minimum of 2000 clinical hours.

Additionally, the minimum total number of MRI examinations to be recorded is 1000, of which no fewer than 500 must be performed without assistance.

Assessment of clinical competency will also occur in the student's workplace throughout the duration of their enrolment within this programme.

Students will not be able to compensate an inadequate clinical assessment with excellent academic work.

A final clinical competency assessment, Structured Observation and Assessment of Practice (SOAP), must be performed at the student's workplace and passed. Successful completion of this qualification will enable registration with the MRTB in the Magnetic Resonance Imaging scope of practice.

## Maximise your chances of obtaining an MRI clinical training position

To obtain a training position, you need to approach MRI Team Leaders of the District Health Boards and/or private radiology facilities in your area who provide MRI services to see if any training positions are available. These positions are also often advertised on websites such as [seek.co.nz](http://seek.co.nz) or [kiwihealthjobs.com](http://kiwihealthjobs.com)

We offer Medical Imaging practitioners the opportunity to enrol in a PGCertHSc (Medical Imaging) and complete four courses that may then be credited towards the MRI diploma should you succeed in obtaining a training position within five years. This option demonstrates to potential employers your enthusiasm and aptitude! For further information on this pathway, please see pg. 5.

## Schedule of courses

### PGDipHSc (Magnetic Resonance Imaging)

Course Code	Course Name	S1	S2
MEDIMAGE 701	Imaging Anatomy and Pathology	■	■
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■
MEDIMAGE 714	Fundamentals of Clinical MRI*	■	■
MEDIMAGE 715	MRI Technology		■
MEDIMAGE 721	MRI Safety	■	
CLINIMAG 710	MRI Clinical Applications	■	

**“MRI is a complex imaging modality which has always fascinated me, and I saw this as an excellent opportunity to challenge myself”**

**Find out more**  
[www.auckland.ac.nz/pg/mri](http://www.auckland.ac.nz/pg/mri)

# Nuclear Medicine

This programme provides a combination of academic and clinical elements ensuring graduates from this programme will be eligible for registration with the regulatory body, the New Zealand Medical Radiation Technologists Board (MRTB).

## Our PGDipHSc (Nuclear Medicine) programme

Graduates of the PGDipHSc (Nuclear Medicine) will be prepared to contribute to the improvement of clinical health services offered to the New Zealand public by implementing their knowledge and expertise within Medical Imaging, specifically within Nuclear Medicine. Graduates will also be able to advance to Master's level study and contribute to the development of Medical Imaging services through research.

For admission to this programme, the student must satisfy the Programme Director that they are employed in an appropriate clinical training position. This is a paid position in a nuclear medicine practice in New Zealand and it is the responsibility of the student to find and secure this position. Appropriate supervision of the student must also be provided by a qualified and experienced member of staff who is registered in the Nuclear Medicine scope of practice and holds a current Annual Practising Certificate (APC).

For those interested in pursuing a career in nuclear medicine and who are NOT Medical Imaging Technologists, please refer to the University of Auckland website for more information:

[www.auckland.ac.nz/pg/nuclear-medicine](http://www.auckland.ac.nz/pg/nuclear-medicine)

## Workplace clinical requirements

In order to develop the necessary technical, clinical and diagnostic skills, trainees must be exposed to a large number and wide range of Nuclear Medicine examinations. By completion of the training period the requirement is that the student has experienced a minimum of 2000 clinical hours.

Additionally, the minimum total number of Nuclear Medicine examinations to be recorded is 1000, of which no fewer than 500 must be performed without assistance. Within the Nuclear Medicine programme, there is also a requirement for familiarisation and competency of processes and procedures additional to imaging. These are predominantly laboratory based and include a significant focus on quality assurance and radiation safety.

Assessment of clinical competency will also occur in the student's workplace throughout the duration of their enrolment within this programme. Students will not be able to compensate an inadequate clinical assessment with excellent academic work.

A final clinical competency assessment, Structured Observation and Assessment of Practice (SOAP), must be performed at the student's workplace and passed. Successful completion of this qualification will enable registration with the MRTB in the Nuclear Medicine scope of practice.

## Schedule of courses

### PGDipHSc (Nuclear Medicine)

Course Code	Course Name	S1	S2
MEDIMAGE 701	Imaging Anatomy and Pathology	■	■
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■
MEDIMAGE 720	Fundamentals of Clinical Nuclear Medicine	These courses will not be offered in 2022	
MEDIMAGE 708	Nuclear Medicine Technology		
CLINIMAG 705	Nuclear Medicine Clinical Applications	■	
CLINIMAG 706	Nuclear Medicine Specialised Clinical Applications		■
CLINIMAG 716	Nuclear Medicine Clinical Practice		■
CLINIMAG 707	CT Clinical Practice	■	

**“The University of Auckland is the only university which provides a Nuclear Medicine postgraduate qualification in New Zealand”**

**Find out more**

[www.auckland.ac.nz/pg/nuclear-medicine](http://www.auckland.ac.nz/pg/nuclear-medicine)



*“I chose to become a Nuclear Medicine Technologist because I liked the varied aspects of Nuclear Medicine as a modality, allowing a good combination of lab and image processing work whilst still having plenty of patient contact.”*

*“The University of Auckland is the only university which provides a Nuclear Medicine postgraduate qualification in New Zealand. With its great reputation I knew it would offer a fantastic learning environment. I have particularly liked that the academic programme is relevant to the clinical setting and that all of the courses aided and complemented my clinical learning.”*

*“All of the lecturers and support staff whom I encountered during my study were extremely helpful, approachable and friendly. I used the Student Services learning advisers for help and advice on improving future assignments. I found this to be extremely helpful and I would recommend other students take advantage of this service. I also couldn’t have asked for a more supportive, knowledgeable Clinical Supervisor.”*

*“This qualification has enabled me to be a confident and competent Nuclear Medicine Technologist. I intend to focus on consolidating my existing knowledge base, then maybe consider further study in the future.”*

## **Rachel Barrass**

Graduate Rachel Barrass works as a Nuclear Medicine Technologist at Specialist Radiology & MRI in Auckland.

# Ultrasound

This programme provides a combination of academic and clinical elements ensuring graduates from this programme will be eligible for registration with the regulatory body, the New Zealand Medical Radiation Technologists Board (MRTB).

## Our PGDipHSc (Ultrasound) programme

Graduates of the PGDipHSc (Ultrasound) will be prepared to contribute to the improvement of clinical health services offered to the New Zealand public by implementing their knowledge and expertise within Medical Imaging, and specifically within ultrasound. Graduates will also be able to advance to Master's level study and contribute to the development of Medical Imaging services through research.

For admission to this programme, the student must satisfy the Programme Director that they are employed in an appropriate clinical training position. This is a paid position in an ultrasound practice in New Zealand and it is the responsibility of the student to find and secure this position. Appropriate supervision of the student must also be provided by a qualified and experienced member of staff who is registered in the Ultrasound scope of practice and holds a current Annual Practising Certificate (APC).

The Ultrasound programme is designed to be completed part-time and by distance learning, with the exception of CLINIMAG 709 (Principles of Clinical Ultrasound) which requires on-campus attendance.

For those interested in pursuing a career in ultrasound and who are NOT Medical Imaging Technologists, please refer to the University of Auckland website for more information:

[www.auckland.ac.nz/pg/ultrasound](http://www.auckland.ac.nz/pg/ultrasound)

## Workplace clinical requirements

In order to develop the necessary technical, clinical and diagnostic skills, trainees must be exposed to a large number and wide range of Ultrasound examinations. By completion of the training period the requirement is that the student has experienced a minimum of 2000 clinical hours. Additionally, the minimum total number of Ultrasound examinations to be recorded is 2000, of which no fewer than 1000 must be performed without assistance.

Assessment of clinical competency will also occur in the student's workplace throughout the duration of their enrolment within this programme. Students will not be able to compensate an inadequate clinical assessment with excellent academic work.

A final clinical competency assessment, Structured Observation and Assessment of Practice (SOAP), must be performed at the student's workplace and passed. Successful completion of this qualification will enable registration with the MRTB in the Ultrasound scope of practice.

## Maximise your chances of obtaining an ultrasound clinical training position

To obtain a training position, you need to approach Ultrasound Team Leaders of the District Health Boards and/or private radiology facilities in your area who provide ultrasound services to see if any training positions are available. These positions are also often advertised on websites such as [seek.co.nz](http://seek.co.nz) and [kiwihealthjobs.com](http://kiwihealthjobs.com)

We offer Medical Imaging practitioners and graduates from other health science related fields such as biomedical science, or an allied health profession, the opportunity to enrol in a Postgraduate Certificate in Health Sciences and complete four courses that may then be credited towards the ultrasound diploma should you succeed in obtaining a training position within five years. This option demonstrates to potential employers your enthusiasm and aptitude! For further information, please see pg. 5.

## Schedule of courses

### PGDipHSc (Ultrasound)

Course Code	Course Name	S1	S2
MEDIMAGE 701	Imaging Anatomy and Pathology	■	■
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■
MEDIMAGE 716	Fundamentals of Clinical Ultrasound*	■	■
MEDIMAGE 717	Ultrasound Imaging Technology	■	
CLINIMAG 709	Principles of Clinical Ultrasound OR	■	■
CLINIMAG 719	Ultrasound Abdominal Clinical Applications	■	■
CLINIMAG 713	Ultrasound in Women's Health		■
CLINIMAG 715	Ultrasound Clinical Practice	■	■
CLINIMAG 720	Ultrasound Specialised Clinical Applications	■	

\*As this course is a pre-requisite for all of the other ultrasound-specific courses, it is expected that students complete this in the first semester of their programme of study

**“The combination of hands on and theoretical learning offers a great balance between clinical practice and academic study”**

Find out more

[www.auckland.ac.nz/pg/ultrasound](http://www.auckland.ac.nz/pg/ultrasound)



***“Sonography is invaluable in the diagnostic pathway, combining specialised knowledge, problem solving and clinical practice in a demanding and enjoyable environment.”***

*“Studying ultrasound has allowed me to advance my career through further education, developing new skills in a progressive and rewarding field.”*

*“I chose to study at the University of Auckland as it is highly regarded in tertiary education, providing high quality lecturers and a collaborative learning environment. The combination of hands on and theoretical learning offers a great balance between clinical practice and academic study.”*

*“The coursework is interesting and relevant, developing the essential skills and knowledge required to enter the workplace, through training using real life clinical scenarios. The University provides access to a wealth of easily accessible resources including an image database to support the learning and research processes.”*

*“Enthusiastic and encouraging staff, encompassing the highly knowledgeable teaching of lecturers and clinical tutors from a variety of healthcare facilities and backgrounds, provides a current and well-rounded learning experience.”*

*“The 12-week intensive course with small, intimate group sizes provided a personalised learning experience which supported me in developing a foundation of core skills. I have thoroughly benefitted from the encouraging and supportive classes and developed valuable friendships with like-minded students.”*

*“Ultrasound is a field I am passionate about and I hope to use this qualification as a baseline to set up my career, with the potential option for further specialisation at a later stage.”*

## ***Emma Tansey***

Postgraduate Diploma in Health Sciences (Ultrasound) student Emma Tansey works as a trainee sonographer at Auckland City Hospital.

# Course descriptions

Offering of courses in each semester is dependent on sufficient student enrolment numbers and is therefore subject to change by the School of Medical Sciences.

## Enrolment information explained

### Prerequisite

*A course that you must pass before you can start to study in this course.*

### Restriction

*A course which is restricted against another course because the learning objectives, content, and/or assessment are so similar to the other course that you cannot gain credit for both courses towards a certificate, diploma, or degree.*

### Corequisite

*A course that should be taken in the same semester as another unless it has previously been satisfactorily completed.*

### Department consent required

*Before you can enrol in this course you must obtain permission to do so from the department. Contact your faculty student centre if you need help or advice. Refer to pg. 22 for further details.*

## MEDIMAGE 701

### Imaging Anatomy and Pathology

Addresses the principles of medical science at whole body, organ, tissue, cellular and sub cellular levels by developing an integrated understanding of anatomy and pathology as it applies to medical imaging in the clinical context. Specific anatomical regions and pathologies will be investigated to explain imaging appearances and evaluate the role of a variety of imaging modalities in patient pathways.

## MEDIMAGE 702

### Professional Issues in Medical Imaging

Students will investigate the concept of professional practice leading to an exploration of current professional issues relevant to medical imaging. The course will develop students' ability to reflect on, and respond to, the wide variety of professional, ethical, medico-legal and clinical workplace issues generated in a rapidly changing environment.

## MEDIMAGE 707

### Mammographic Technology

Provides students with an in-depth understanding of mammographic technology and its application. The course addresses the scientific principles of the modality including image formation, technical parameters, radiation safety specific to mammography, image quality, artefacts and quality assurance. Equipment developments and new and evolving techniques will be examined.

## MEDIMAGE 708

### Nuclear Medicine Technology

Extends students' specialised theoretical knowledge and understanding of the underlying scientific principles of nuclear medicine technology. Students will develop the ability to apply this knowledge to obtain images of optimal diagnostic quality.

**Prerequisite:** MEDIMAGE 720

## MEDIMAGE 710

### CT Imaging Technology

Provides students with an in-depth understanding of CT technology and its application. The course addresses the scientific principles of the modality including image formation and reconstruction, technical parameters, radiation safety and dose reduction, image quality, artefacts, quality assurance and contrast agents. Equipment developments and new and evolving techniques will be examined.

## MEDIMAGE 711

### Musculoskeletal Trauma Image Evaluation

Provides students with the knowledge to evaluate radiographs of common musculoskeletal trauma in the clinical setting. Using a systematic method of image interrogation and a critical approach, students will develop the ability to provide a preliminary clinical image evaluation of common musculoskeletal trauma radiographs.

## MEDIMAGE 714

### Fundamentals of Clinical MRI

Provides students with knowledge of the fundamental scientific principles of MRI. Students will examine components of the clinical environment in the context of patient care and safety. In addition, students will evaluate common clinical applications, developing the ability to analyse standard imaging protocols and explain normal and abnormal MR imaging appearances.

## MEDIMAGE 715

### MRI Technology

Extends students' specialised theoretical knowledge and understanding of the underlying scientific principles of MR technology. Students will develop the ability to apply this knowledge to obtain images of optimal diagnostic quality.

**Prerequisite:** MEDIMAGE 714

**Restriction:** MEDIMAGE 703, 704

## MEDIMAGE 716

### Fundamentals of Clinical Ultrasound

Provides students with knowledge of the fundamental scientific principles of ultrasound. Students will develop the ability to apply this knowledge to different patient populations. In addition, students will investigate standard sonography imaging techniques and analyse sonographic imaging appearances.

## MEDIMAGE 717

### Ultrasound Imaging Technology

Provides students with specialised theoretical knowledge and understanding of the underlying scientific principles of ultrasound technology including equipment developments, and new and evolving techniques. Students will develop the ability to apply this knowledge to obtain images of optimal diagnostic quality.

**Prerequisite:** MEDIMAGE 716

## MEDIMAGE 720

### Fundamentals of Clinical Nuclear Medicine

Provides students with knowledge of the fundamental scientific principles of nuclear medicine. Students will examine components of the clinical environment in the context of patient care and safety. In addition, students will evaluate common clinical applications, developing the ability to analyse standard imaging protocols and explain normal and altered biodistribution and nuclear medicine imaging appearances.

## MEDIMAGE 721

### MRI Safety

Extends students' understanding of the underlying physical principles related to a range of MRI safety issues. The course will provide students with the opportunity to explore these safety issues in detail and to apply this knowledge in critically evaluating current policies and practices. New and emerging safety topics will also be examined.

## CLINIMAG 705

### Nuclear Medicine Clinical Applications

Addresses normal and altered radiopharmaceutical biodistribution appearances, protocol selection and development, and clinical applications associated with the endocrine, respiratory, gastrointestinal, hepatobiliary, genitourinary and central nervous systems.

**Prerequisite:** MEDIMAGE 720

## CLINIMAG 706

### Nuclear Medicine Specialised Clinical Applications

Addresses normal and altered radiopharmaceutical biodistribution appearances, and protocol selection and development, associated with cardiovascular, lymphatic and oncological applications in Nuclear Medicine. Students will also examine non-imaging radionuclide investigations and therapeutic applications associated with current and evolving Nuclear Medicine techniques.

**Prerequisite:** MEDIMAGE 720

## CLINIMAG 707

### CT Clinical Practice

Provides students with a sound understanding of CT technology and its application including radiation safety and dose reduction. Addresses normal and abnormal Computed Tomography (CT) imaging appearances, protocol selection and modification, in relation to a range of standard clinical applications. Students will develop the knowledge, competencies, skills and attitudes needed to enable clinical competence in both academic and professional capability in CT practice and application to clinical practice.

## CLINIMAG 708

### Mammographic Clinical Practice

Addresses normal and abnormal mammographic imaging appearances, technique evaluation and adaptation, and includes reflection on clinical practice relating to mammography. The course will ensure students develop the knowledge, competencies, skills and attitudes needed to demonstrate mastery in academic and professional mammographic practice.

**Prerequisite:** MEDIMAGE 707

## CLINIMAG 709

### Principles of Clinical Ultrasound

Addresses normal and abnormal ultrasound imaging appearances, scanning techniques and applications associated with abdominal ultrasound examinations. An emphasis will be placed on integrating theory and clinical practice elements to facilitate sound clinical reasoning, decision-making and clinical competence. Develops clinical competence to the level expected of a trainee sonographer during the initial phase of clinical training.

**Corequisite:** MEDIMAGE 716

**Restriction:** CLINIMAG 719

## CLINIMAG 710

### MRI Clinical Applications

Addresses normal and abnormal imaging appearances, protocol selection and development, and applications associated with standard neurological, musculoskeletal and body MRI examinations. An emphasis will be placed on integrating theory and clinical practice elements to facilitate sound clinical reasoning, decision-making and clinical competence.

**Prerequisite:** MEDIMAGE 714

**Restrictions:** CLINIMAG 701, 702

## CLINIMAG 711

### MRI Specialised Clinical Applications

Addresses complex scientific principles of MRI relevant to a range of specialised applications. Students will examine advanced pulse sequences, in addition to investigating new and evolving techniques and applications. An emphasis will be placed on integrating theory and clinical practice elements to facilitate sound clinical reasoning, decision-making and clinical competence.

**Prerequisite:** MEDIMAGE 714

**Restriction:** CLINIMAG 702

## CLINIMAG 712

### MRI Clinical Practice

Develops the knowledge, competencies, skills and attitudes needed to demonstrate mastery in both academic and professional capability in MRI practice.

**Prerequisite:** Departmental approval required

## CLINIMAG 713

### Ultrasound in Women's Health

Addresses normal and abnormal ultrasound imaging appearances, scanning techniques and applications relating to women's health. An emphasis will be placed on integrating theory and clinical practice elements to facilitate sound clinical reasoning, decision-making and clinical competence.

**Prerequisite:** MEDIMAGE 716

**Restriction:** CLINIMAG 703



Dr Beau Pontré, leading a physics tutorial

## CLINIMAG 715

### Ultrasound Clinical Practice

Develops the knowledge, competencies, skills and attitudes needed to demonstrate mastery in both academic and professional capability in ultrasound practice.

**Prerequisite:** Departmental approval required

## CLINIMAG 716

### Nuclear Medicine Clinical Practice

Develops the knowledge, competencies, skills and attitudes needed to demonstrate mastery in both academic and professional capability in Nuclear Medicine practice.

**Prerequisite:** Departmental approval required

## CLINIMAG 717

### CT Clinical Applications

Addresses normal and abnormal Computed Tomography (CT) imaging appearances, protocol selection and modification, and application to clinical practice.

**Restriction:** CLINIMAG 707

*MEDIMAGE 710 is recommended as a prerequisite course, although not required.*

## CLINIMAG 719

### Ultrasound Abdominal Clinical Applications

Addresses normal and abnormal ultrasound imaging appearances, scanning techniques and applications associated with abdominal ultrasound examinations. An emphasis will be placed on integrating theory and clinical practice elements to facilitate sound clinical decision making and clinical competence.

**Prerequisite:** MEDIMAGE 716

**Restriction:** CLINIMAG 704, 714

## CLINIMAG 720

### Ultrasound Specialised Clinical Applications

Addresses normal and abnormal ultrasound imaging appearances, scanning techniques and applications associated with specialised ultrasound imaging. An emphasis will be placed on integrating theory and clinical practice elements to facilitate sound clinical reasoning, decision-making and clinical competence.

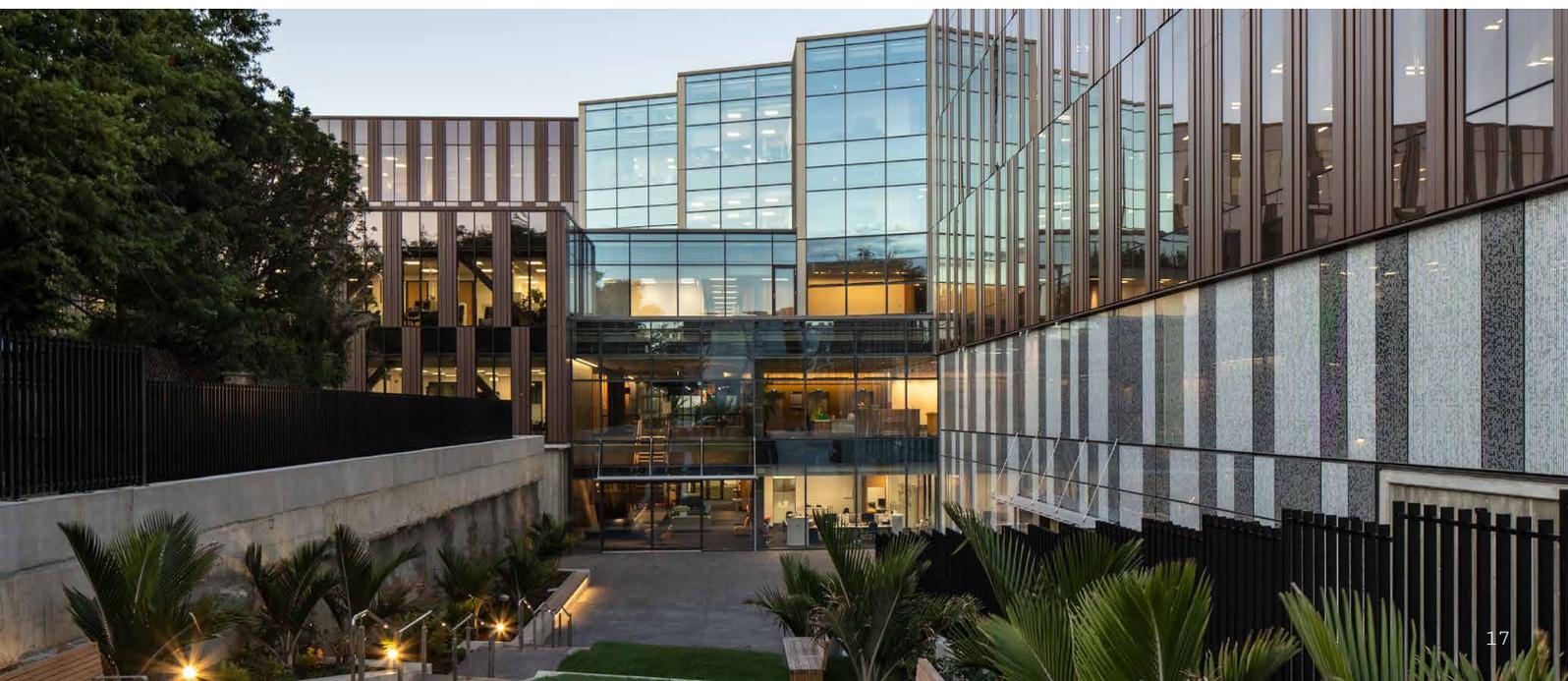
**Prerequisite:** MEDIMAGE 716

**Restriction:** CLINIMAG 704, 714

# Course schedule 2022

Course Code	Course Name	S1	S2	Course Coordinator
MEDIMAGE 701	Imaging Anatomy and Pathology	■	■	Adrienne Young
MEDIMAGE 702	Professional Issues in Medical Imaging	■	■	Andrea Thompson
MEDIMAGE 707	Mammographic Technology	■		Rhonda-Joy Sweeney
MEDIMAGE 708	Nuclear Medicine Technology	Not offered in 2022		Beau Pontré
MEDIMAGE 710	CT Imaging Technology	■		Catherine Lyman
MEDIMAGE 711	Musculoskeletal Trauma Image Evaluation		■	Heather Gunn
MEDIMAGE 713	Special Studies	As required		
MEDIMAGE 714	Fundamentals of Clinical MRI	■	■	Adrienne Young
MEDIMAGE 715	MRI Technology		■	Beau Pontré
MEDIMAGE 716	Fundamentals of Clinical Ultrasound	■	■	Nethanel Murania
MEDIMAGE 717	Ultrasound Imaging Technology	■		Nethanel Murania
MEDIMAGE 720	Fundamentals of Clinical Nuclear Medicine	Not offered in 2022		Adrienne Young
MEDIMAGE 721	MRI Safety	■		Adrienne Young
CLINIMAG 705	Nuclear Medicine Clinical Applications	■		Pippa Bresser
CLINIMAG 706	Nuclear Medicine Specialised Clinical Applications		■	Pippa Bresser
CLINIMAG 707	CT Clinical Practice	■		Catherine Lyman
CLINIMAG 708	Mammographic Clinical Practice		■	Rhonda-Joy Sweeney
CLINIMAG 709	Principles of Clinical Ultrasound	■	■	Jessica Raimundo
CLINIMAG 710	MRI Clinical Applications	■		Shelley Park
CLINIMAG 711	MRI Specialised Clinical Applications		■	Shelley Park
CLINIMAG 712	MRI Clinical Practice	■	■	Shelley Park
CLINIMAG 713	Ultrasound in Women's Health		■	Adriana Mijatovic
CLINIMAG 715	Ultrasound Clinical Practice	■	■	Cathy Sorensen
CLINIMAG 716	Nuclear Medicine Clinical Practice		■	Karen Roeske
CLINIMAG 717	CT Clinical Applications		■	Catherine Lyman
CLINIMAG 719	Ultrasound Abdominal Clinical Applications	■	■	Adriana Mijatovic
CLINIMAG 720	Ultrasound Specialised Clinical Applications	■		Cathy Sorensen

*This course schedule lists all courses that will be offered in 2022 (subject to sufficient student numbers)*



# Postgraduate Certificate in Health Sciences

Postgraduate certificates can be used to give students a postgraduate qualification in an area of interest or in which they have some professional involvement. The PGCertHSc (Medical Imaging) and PGCertHSc (Mammography) programmes offer courses suitable for registered Medical Imaging Technologists who wish to advance their career and/or own professional development. Within the Medical Imaging specialisation, students can choose their own combination of courses to suit their professional needs or follow prescribed pathways while seeking a clinical training position in MRI, ultrasound or nuclear medicine.

Often students begin with this qualification if they have been out of study for some time or they just want to see what postgraduate study is all about. It is also the recommended initial qualification for non-university and overseas graduates.

Any course offered by the faculty can also be taken as a Certificate of Proficiency (COP). Students sometimes enrol in a course as a COP if they wish to take only one or two courses and know that they definitely will not be returning to the University to take up any further study in that particular area. COP courses cannot be reassigned into research Master's degrees, and there are point limits and time limits for reassigning COPs into other postgraduate programmes. If you are considering enrolling in a course as a COP then you are advised to seek advice from either the department that offers the course or the Faculty Student Centre (see pg. 24).

## Eligibility

Students applying for the Medical Imaging specialisation need to have:

- Completed a qualification in Medical Imaging.

AND

- Must hold current registration with the New Zealand Medical Radiation Technologists Board (MRTB) in the Medical Imaging Technologist scope of practice, or provide evidence of registration (or other evidence of the right to work) as a Medical Imaging Technologist in their country of domicile.

Students applying for the Mammography specialisation need to have:

- Completed a qualification in Medical Imaging or Radiation Therapy.

AND

- Must hold current registration with the New Zealand Medical Radiation Technologists Board in the Medical Imaging Technologist or Radiation Therapist scope of practice, or provide evidence of registration (or other evidence of the right to work) as a Medical Imaging Technologist or Radiation Therapist in their country of domicile.

AND

- Must confirm that they have secured employment in a clinical training position approved by the Programme Director (or delegate).

## Duration and points value

Postgraduate certificates consist of 60 points of taught courses (usually four courses). Students in full-time work or with family responsibilities are advised to consider completing the programme over two years.

<b>Points required:</b>	60
<b>Time to complete:</b>	Within one semester if enrolled full-time, within two years in enrolled part-time
<b>Start semester:</b>	One or Two

This programme has a total enrolment clause of 90 points. This is the maximum number of points you can enrol in (including failed or withdrawn courses) towards this programme.

### End of study extension

If further time is required to complete the programme of study, an end of study extension may be requested under specific circumstances.

Please seek advice from:

[fmhs@auckland.ac.nz](mailto:fmhs@auckland.ac.nz) regarding the application process for withdrawals, late deletions and suspensions of study.

## Regulations

Detailed information on admission criteria, programme structure and content, and the schedule of courses can be found in the Calendar Regulations for the Postgraduate Certificate in Health Sciences.

[www.auckland.ac.nz/pgcerthsc-regulations](http://www.auckland.ac.nz/pgcerthsc-regulations)

Students who successfully complete a postgraduate certificate may go on to complete a postgraduate diploma by completing a further 60 points (usually four courses).

### Transfer Credits and Reassignments

Transfer credits (credit from another tertiary institution) may not be awarded for a Postgraduate Certificate.

With the approval of the Head of Department, courses may be reassigned to a Postgraduate Certificate. Up to two COPs may be reassigned provided that the enrolment in the postgraduate qualification is no later than three semesters from the initial enrolment in the course(s) reassigned from a COP. This must be applied for at the time of admission to the postgraduate certificate programme.

Please note that all regulations should be read in conjunction with the General Regulations – Postgraduate Certificates.

# Postgraduate Diploma in Health Sciences

Postgraduate diplomas can be used to give students a postgraduate qualification in an area of interest or in which they have some professional involvement. The PGDipHSc (MRI), PGDipHSc (Ultrasound), PGDipHSc (Nuclear Medicine) and PGDipHSc (Medical Imaging) programmes offer courses suitable for registered Medical Imaging technologists who wish to advance their career and/or own professional development. Within the Medical Imaging specialisation, students can choose their own combination of courses to suit their professional needs.

The PGDipHSc (MRI), PGDipHSc (Ultrasound) and PGDipHSc (Nuclear Medicine) programmes provide a route to registration for Magnetic Resonance Imaging technologists, sonographers and Nuclear Medicine technologists. These programmes have been accredited by the New Zealand Medical Radiation Technologists Board (MRTB).

## Eligibility

Students applying for the Medical Imaging specialisation need to have:

- Completed an undergraduate degree in Medical Imaging.

AND

- Must hold current registration with the New Zealand Medical Radiation Technologists Board (MRTB) in the Medical Imaging Technologist scope of practice, or provide evidence of registration (or other evidence of the right to work) as a Medical Imaging Technologist in their country of domicile.

Students applying for the Magnetic Resonance Imaging, Nuclear Medicine, or Ultrasound specialisation need to have:

- Completed a qualification in Medical Imaging, or an undergraduate degree in a biomedical science related field or allied health profession as approved by the Programme Director (or delegate).

AND

- Must confirm that they have secured employment in a clinical training position approved by the Programme Director (or delegate).

## Duration and points value

<b>Points required:</b>	120
<b>Time to complete:</b>	Within one year if enrolled full-time, within four years if enrolled part-time
<b>Start semester:</b>	One or Two

This programme has a total enrolment clause of 160 points. This is the maximum number of points you can enrol in (including failed or withdrawn courses) towards this programme.

The Postgraduate Diploma may be awarded with Distinction or Merit where a student's overall grade is sufficiently high.

### End of study extension

If further time is required to complete the programme of study, an end of study extension may be requested under specific circumstances.

Please seek advice from:

[fmhs@auckland.ac.nz](mailto:fmhs@auckland.ac.nz) regarding the application process for withdrawals, late deletions and suspensions of study.

## Regulations

Detailed information on admission criteria, programme structure and content, and the schedule of courses can be found in the Calendar Regulations for the Postgraduate Diploma in Health Sciences.

[www.auckland.ac.nz/pgdiphsc-regulations](http://www.auckland.ac.nz/pgdiphsc-regulations)

Students who successfully complete a University of Auckland Postgraduate Certificate in Health Sciences (or its equivalent) may go on to complete a Postgraduate Diploma in Health Sciences by completing a further 60 points (usually four courses). Students must apply to credit their certificate courses to this diploma – please request this when applying online.

## Transfer credits, cross-credits and reassignments

### Transfer credits

Transfer credits (credit from another tertiary institution) may be awarded for a maximum of 30 points provided that the enrolment in the postgraduate qualification at the University of Auckland is no later than three semesters from the initial enrolment in the course(s) for which credit is to be given. This must be applied for at the time of admission to the postgraduate diploma programme. Transfer credit will not be given for courses from completed qualifications.

### Credit from a postgraduate certificate

In the case of a student who has completed a Postgraduate Certificate for which credit is granted to a Postgraduate Diploma, admission to the Postgraduate Diploma must take place within five years of completion of the Postgraduate Certificate.

In addition, the requirements for the postgraduate diploma must be completed within:

One semester of admission	If enrolled full-time
Two years of admission	If enrolled part-time

### Reassignments

With the approval of the Head of Department, courses may be reassigned to a Postgraduate Diploma. Up to two courses may be reassigned provided that the enrolment in the postgraduate qualification is no later than three semesters from the initial enrolment in the course(s) reassigned from a COP. This must be applied for at the time of admission to the postgraduate diploma programme. Please note that all regulations should be read in conjunction with the General Regulations – Postgraduate Diplomas.

# Master of Health Sciences – MHSc

The regulations for this degree are to be read in conjunction with all other relevant statutes and regulations including the Academic Statutes and Regulations.

## Admission

In order to be admitted to this programme, a student needs to have completed the requirements for the Postgraduate Diploma in Health Sciences or its equivalent with an average grade of B or higher and not exceed 160 points for the total enrolment for this degree.

A 120 point thesis or research portfolio may be started on 1 March, 15 July or 1 December and must be completed within 2 years if enrolled part time.

### Research Masters

120 points: HLTHSCI 796 Thesis

OR

120 points: HLTHSCI 797 Research Portfolio

OR

90 points: HLTHSCI 793 Research Portfolio

AND

30 points from courses listed in the Master of Health Sciences Schedule

### Taught Masters

- 60 points: HLTHSCI 790 Dissertation
- 60 points from the courses listed in the Master of Health Sciences Schedule

## Contact

### Medical Imaging Masters Advisor

Dr Beau Pontré

Email: b.pontre@auckland.ac.nz

## Thesis, dissertation or research portfolio?

This is usually decided in consultation with an academic supervisor/adviser as part of the discussion on a suitable topic and research question.

The aim of the research, whether a thesis, dissertation or research portfolio, is to give you the opportunity to research a health issue and the following skills will be learned in the context of your specific project:

- Identifying and accessing the resources necessary to undertake the research
- Reviewing and analysing relevant literature
- Choosing a research methodology appropriate to the problem and scope of the study (depending on whether the project is a dissertation, thesis or portfolio) and rigorously applying that methodology whether it be qualitative, quantitative or conceptual
- Reporting the project by covering purpose, backgrounds, method, findings, conclusions, and recommendations
- Interpreting the findings and identifying the wider implications of the project especially for healthcare in New Zealand
- Identifying and addressing ethical issues

## Scope of a thesis

A thesis generally constitutes 120 points and is a formal body of academic research which should display the following:

- It should constitute an investigation designed to analyse a proposition, problem area, or concept.
- It should display a critical approach to the topic.
- Relevant research literature will be reviewed and will make clear the parameters used for including literature and the search strategy.
- The planning and execution of the research or analysis should be competent.
- The findings of the research or the outcomes of the analysis should be clearly described, supported by appropriate argument and suitably documented.

- The implications for future research should be discussed.
- The thesis should meet standards of technical accuracy in writing and presentation, readability, debate and analytical thinking.
- Its length may vary, but is expected to be about 40,000 - 50,000 words, including tables, figures and references; appendices can be additional. Length will vary with the nature of the topic, the methodology used and the credit point value.

## Scope of a dissertation

A dissertation, at 60 points, may also be a formal academic research work, though with lesser workload and expectation than a thesis. It may also be a critical review or a comprehensive proposal for a research that may involve a pilot study, or analysis of data that has already been collected. On completion of a dissertation students should have demonstrated they understand, can interpret and critique research.

The topic of a dissertation is preferably uncomplicated by requirements such as ethics approval or sample recruitment.

The expectations of a dissertation are:

- The dissertation should comprise a coherent and competently organised document.
- The rationale for the study should be clear, with a soundly constructed research question and objectives identified clearly.
- Relevant research literature will be reviewed, and will make clear the parameters used for including literature and the search strategy.
- Implications of the study and recommendations for theory and/or practice and for future research will be specified.
- The final document will meet standards of technical accuracy in writing and presentation, readability, debate and analytical thinking.
- Its length may vary but is expected to be about 20,000 words in length, including tables, figures and references; appendices are additional.



***“My Master’s research is investigating MRI safety and the relationship between MRI safety education and MRI technologists’ ability to practise in a safe and confident manner.***

*“I have been a registered Medical Radiation Technologist for 30 years, of which 23 years have been spent exclusively in the MRI department. I decided to study this topic because over this period of time I have seen the role of the MRI technologist evolving and there is now the need to undertake a higher level of clinical decision making in daily clinical practice. This research is important because the MRI technologist is at the frontline when it comes to making decisions and having responsibility for the safe care of the patient in the MRI environment.*

*“I chose to complete my Master’s degree at the University of Auckland because it is a leading University and I was honoured to be invited to continue my studies here. I value the support and encouragement of my supervisors, and the online study environment enables me to continue working while completing my degree which was an essential factor in my decision.*

*“I anticipate that my research will provide insight into how confident MRI Technologists in New Zealand and Australia currently feel when making clinical decisions related to MRI safety and to identify whether or not current educational opportunities are meeting their needs. If not, I intend to make recommendations for future improvement. On a personal note, I hope that completing this research will provide opportunities to being involved in new areas complementary to my clinical practice, such as teaching or further research.”*

## ***Lisa Mittendorff***

Master of Health Sciences graduate  
Lisa Mittendorff works as a Senior MRI Technologist at Mercy Radiology in Auckland. Lisa’s first involvement with the University of Auckland was as a Clinical Supervisor.

# New Students

## Admission

For information regarding application for admission in 2022 or 2023, students should visit the University of Auckland website:

[www.auckland.ac.nz/applynow](http://www.auckland.ac.nz/applynow)

All students need to upload the official documents listed below with their application.

- Verification of legal name, date of birth and citizenship status: passport, birth certificate or certificate of citizenship. If names have been changed, for example through marriage, such documentation must be provided.
- Verification of admission qualifications: your highest qualification, e.g., hospital training certificate, polytechnic diploma, polytechnic degree, or university degree.
- If you hold a polytechnic diploma or university or polytechnic degree you must send in an official academic transcript.
- For Mammography, MRI, Nuclear Medicine and Ultrasound students, a completed clinical training position agreement form is required.

### Admission with an undergraduate degree

Students with an undergraduate degree may apply for either the Postgraduate Certificate in Health Sciences or Postgraduate Diploma in Health Sciences.

Students must have an undergraduate qualification in Medical Imaging to be admitted to the Medical Imaging and Mammography specialisations, although students with an undergraduate qualification in radiation therapy will also be considered for the Mammography specialisation.

A range of backgrounds including allied health professionals will be considered for admission to the Ultrasound, MRI and Nuclear Medicine specialisations. For more information contact: [medicalimaging@auckland.ac.nz](mailto:medicalimaging@auckland.ac.nz)

### Admission without an undergraduate degree

The University of Auckland may allow MITs to enrol in a postgraduate programme without an undergraduate degree if they have a health professional qualification and at least two years clinical practice.

### Admission with a postgraduate diploma

Students with a postgraduate diploma having achieved a grade point average of B or higher may apply for the Master of Health Science.

## What's the difference between admission and enrolment?

They are two separate processes. First you must be admitted to the University (through the admission process) and then you can enrol in the individual courses you want to take.

New students – do this first:

Submit the online Application for Admission:

[www.auckland.ac.nz/applynow](http://www.auckland.ac.nz/applynow)

Once you have met the entry requirements for the programme you have applied for, go online and accept the University's offer of a place.

Within about 30 minutes you should be able to enrol yourself in courses online.

## When should I enrol?

Students can enrol from **1 November** for the following academic year. New students can enrol once they have gained admission and accepted their offer of a place.

Enrol early and get into the courses you want. You can change your mind after you have enrolled, but be aware of the deadlines for you to make changes to your enrolment.

The deadline for adding and dropping courses is the second Friday of the semester.

If you miss the deadlines, changes to your enrolment become **'late enrolments'** and **'withdrawals'**. Certain fees or regulations may apply.

## Enrolment

Once you have gained admission to the programme of your choice, you should enrol for your courses online for future semesters:

[www.studentservices.auckland.ac.nz/uoaf/](http://www.studentservices.auckland.ac.nz/uoaf/)

Help and guidance on the enrolment process can be found on:

[www.auckland.ac.nz/enrolment](http://www.auckland.ac.nz/enrolment)

## Applying for an enrolment concession

For some courses you may be asked to apply for an enrolment concession. Please follow these step-by-step instructions:

1. Sign into Student Services Online.
2. Click on the 'Enrol' icon.
3. Click on the 'Enrolment Cart' button.
4. Add required courses to your enrolment cart.
5. Click the 'Validate choice(s)' button to check for enrolment errors.
6. Review enrolment error messages. You may be able to apply for an enrolment concession for courses showing an enrolment error. Click 'Return to Enrolment Cart'.
7. Re-select your class(es).
8. Read the Terms and Conditions and then select 'I Accept'.
9. Click on the green 'Confirm Enrolment' button to complete your enrolment request.
10. The Concessions button will be activated if you are able to submit an enrolment concession request for the listed course(s).
11. Click the green 'Concessions' button to apply for an enrolment concession. The 'Apply for a concession' page will appear, showing the course(s) that can be submitted.
12. Click on the 'select' button to change from 'no' to 'yes' to select a course and apply for an enrolment concession.
13. Select the concession reason that matches your circumstances from the drop-down list.
14. Enter any additional comments to support your application in the space provided (not required).
15. Click the green 'Submit' button. Your concession request has been submitted to the faculty for review.

### View progress or withdraw an enrolment concession request:

1. Sign into Student Services Online (SSO)
2. From the home page quick link menu, click 'Concession Requests'. Select the term (semester) of the course your request applies to.

### What happens next?

The faculty will review your request, make a decision and let you know the outcome by email. The final status of your request will also show in Student Services Online.

# Apply and enrol online

## Returning students

Returning students wishing to progress to another qualification should apply online, for example, students who have completed a postgraduate certificate wishing to progress to a postgraduate diploma.

## Change of address

It is important that students notify the University of any change of address as soon as possible. Please update your personal details through Student Services Online (Update My Details): [www.studentservices.auckland.ac.nz/uoa](http://www.studentservices.auckland.ac.nz/uoa)

Applying to study at the University of Auckland is a four-step process:

1. Apply for admission to the University
2. Send required documentation to the University of Auckland
3. Accept an Offer of Place
4. Enrol in the course

## Fees

Information about fees is listed in the University of Auckland Calendar and is available at: [www.auckland.ac.nz/uoa/fp-tuition-fees](http://www.auckland.ac.nz/uoa/fp-tuition-fees)

Under government-to-government reciprocal agreements, students from Australia who are resident in New Zealand enrolled in a graduate programme pay the same fees as New Zealand students. For other international students the fees vary between faculties. Contact the University of Auckland International Office for further details.

## Scholarships

We offer future and current postgraduate students a range of scholarships. To find out more about what you may be eligible for visit:

[www.auckland.ac.nz/pg-scholarships](http://www.auckland.ac.nz/pg-scholarships)

## Apply for a place in a programme(s)

Go to [www.auckland.ac.nz](http://www.auckland.ac.nz)

Click on the 'Apply for admission to study' at the top of the page

Complete the online application for a place in your programme of choice before the closing date.

For assistance, please phone the student helpdesk on: 0800 61 62 65

You will receive an acknowledgement of your application asking you to provide specific verified documentation before your application can be assessed. It will also tell you how to access the University's Student Services Online system to complete the next steps.

## Offer

Your application will be assessed and if successful, you will receive an 'Offer of a place in a programme'. To accept the offer and view your application status online go to:

[www.studentservices.auckland.ac.nz/uoa](http://www.studentservices.auckland.ac.nz/uoa)

## Accept

Accept or decline your offer of a place in a programme online.

## Enrol in your choice of courses

Enrol in your chosen courses via the online Student Services Online system:

[www.studentservices.auckland.ac.nz/uoa/sso-enrol-in-course](http://www.studentservices.auckland.ac.nz/uoa/sso-enrol-in-course)

Congratulations! You are now a student  
at the University of Auckland





#### Medical Imaging contacts

*For academic or general Medical Imaging programme enquiries contact:*

**Adrienne Young**  
Medical Imaging Postgraduate Programme  
Coordinator (Academic)  
Email: [medicalimaging@auckland.ac.nz](mailto:medicalimaging@auckland.ac.nz)

*For Medical Imaging clinical programme enquiries contact:*

**Shelley Park**  
Medical Imaging Postgraduate Programme  
Coordinator (Clinical)  
Email: [MIclinical@auckland.ac.nz](mailto:MIclinical@auckland.ac.nz)

#### Faculty of Medical and Health Sciences Student Centre

Ground floor, Building 503  
Faculty of Medical and Health Sciences  
85 Park Road, Grafton  
Auckland

Phone: +64 9 923 2760

Fax: 0800 61 62 64

Email: [fmhs@auckland.ac.nz](mailto:fmhs@auckland.ac.nz)

Open: 8.30am–4.30pm, Monday to Friday, all year round (except public holidays, Christmas Eve, and the day after Easter Monday)

#### Postal Address

The University of Auckland  
Private Bag 92019  
Auckland 1142, New Zealand