Welcome to Medical Imaging at the University of Auckland

As we farewell 2017 and look forward to welcoming another new year, the end of 2017 also marks five years of successful programme delivery. Since 2013, we have graduated a total of 52 MRI technologists, 42 mammographers, 27 sonographers, 5 nuclear medicine technologists and 26 Medical Imaging technologists who opted to further advance their professional learning. Our heartiest congratulations to each of these graduates. 2018 will also be a very special year as we embark on Year 1 of our undergraduate programme. It is a privilege to be contributing to the New Zealand Medical Imaging workforce at the undergraduate level and the Medical Imaging team is enthused and excited and rearing to go!

“The whole purpose of education is to turn mirrors into windows.”
– Sydney J Harris

“Any fool can know. The point is to understand.”
– Albert Einstein

The University of Auckland is the highest ranked University in New Zealand and our programmes offer the following distinctive features:

- We are the only tertiary institution in New Zealand that offers a series of postgraduate registrable programmes that are accredited by the Medical Radiation Technologists Board of New Zealand;
- We promote a safe and conducive learning environment to encourage students to push the knowledge frontier;
- We adopt a holistic approach to student learning, encouraging reflective and critical thinking which are key attributes of effective healthcare practitioners;
- Our postgraduate programmes further enhance clinical practice and challenge you to better your patient care delivery.

The Medical Imaging team will continue to strive to provide our students with a learning experience that is not only enjoyable, but also one that challenges you to excel.

You will find in this Programme handbook all the information you need to get started.

Best wishes.

Associate Professor Jenny Sim PhD
Programme Director Medical Imaging

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education is to turn mirrors into windows."
– Sydney J Harris

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– Albert Einstein
What is Medical Imaging?

Medical Imaging Technologists (MITs) can work in a variety of roles within Medical Imaging including general x-ray, CT scanning, mammography, ultrasound, MRI and nuclear medicine.

The study of Medical Imaging involves knowledge of human anatomy, physiology and pathology, positioning and imaging techniques, physics and radiation physics, as well as how to use x-ray equipment alongside the safety issues related to the use of radiation equipment and radioactive materials.

Medical imaging is a patient-centred profession. The role involves acting as a patient advocate, displaying a high level of professionalism, and functioning as part of the multidisciplinary team. Technologists are required to perform high-quality diagnostic imaging procedures and ensure holistic patient care. The role of the Medical Imaging Technologist (MIT) is ever changing with the introduction of more complex technologies, increased demand on clinical imaging, and educational opportunities.

Medical Imaging postgraduate study is available for those working professionally in Medical Imaging departments, and also for other interested professionals who wish to broaden their knowledge base of Medical Imaging.

Further to that, postgraduate qualifications are required for professional registration purposes in the imaging technology sub-specialties of Magnetic Resonance Imaging (MRI), Ultrasound and Nuclear Medicine.

Medical Imaging

Medical imaging is the practice of obtaining diagnostic images and providing imaging guidance in interventional procedures, using a range of technologies. It is performed by Medical Imaging Technologists, historically known as radiographers. These health practitioners are required to combine scientific skills and knowledge with patient care into their working practice. In New Zealand, these practitioners are required to be registered with the Medical Radiation Technologists Board (MRTB) to be eligible to practice clinically and hold an Annual Practising Certificate (APC).

New Zealand Graduates

The New Zealand qualification required for registration as a Medical Imaging Technologist is a Bachelor of Health Science (Medical Imaging), Bachelor of Applied Science (Medical Imaging) or Bachelor of Medical Imaging. From 2018, a Bachelor of Medical Imaging (Honours) degree will be offered at the University of Auckland. This programme is the first undergraduate Medical Imaging programme to be offered by a University in New Zealand and the only degree to offer an honours option in Medical Imaging.

Mammography

Mammographers are qualified MITs specialising in diagnostic and/or BreastScreen Aotearoa (BSA) breast imaging services. This career pathway is also suitable for radiotherapists wishing to enter diagnostic imaging and work within BSA. Mammography is a challenging but rewarding clinical environment to participate in and is highly patient-focused. Mammographers require a sound understanding of the technical aspects of imaging breast anatomy and pathology, whilst addressing the 'emotional' requirements of client care and communication.

Magnetic Resonance Imaging (MRI)

Magnetic Resonance Imaging (MRI) Technologists use very high-field strength magnets to obtain diagnostic images of the human body. These images provide information to assist doctors in diagnosing a wide range of neurological, musculoskeletal and body pathologies. MRI Technologists must first obtain an undergraduate degree in Medical Imaging before completing specialist postgraduate study and training in MRI. They should have an interest in physics as well as anatomy and pathology to ensure images of optimal quality are obtained, in addition to good people skills as they have responsibility for the safety and care of patients in the MRI environment. These technologists work primarily in mid-large sized hospitals and private radiology departments.

Nuclear Medicine

A career in Nuclear Medicine is people orientated and provides exposure to health sciences and computer technology. Compared to other modalities Nuclear Medicine is unique in that it uses radioactive tracers to provide both structure and physiological information on almost any organ of the body to assist with the diagnosis and treatment of disease.

Ultrasound

Sonographers are health professionals who utilise their knowledge of human anatomy, pathophysiology, technology and physics in order to obtain diagnostic images, which assist in the diagnosis of disease and foetal abnormalities. Sonographers are employed in hospitals, universities and private clinics. They may also run their own business. Sonography is a highly sought after career, with New Zealand trained sonographers in demand around the world. A career in ultrasound requires highly developed people skills, and a commitment to lifelong learning.

About the Department of Anatomy and Medical Imaging

The Department of Anatomy and Medical Imaging makes a major contribution to general courses in biomedical science teaching and offers specialist courses in the anatomical and imaging sciences. It comprises the disciplines of Anatomy and Medical Imaging and forms part of the School of Medical Sciences of the Faculty of Medical and Health Sciences.

The department also delivers the only postgraduate programme in New Zealand for the Medical Imaging profession.

The research activities of staff are similarly wide ranging and multidisciplinary, extending from the molecular level through biological structure to studies on the whole body. The department is widely recognised for several outstanding developments, including the initiation of a state-of-the-art Biomedical Imaging Research Unit, an internationally recognised human brain bank for neuroscience research, a fully integrated facility that underpins anatomy, radiology and pathology teaching on the human body, Auckland Medical Research Foundation (AMRF), Medical Sciences Learning Centre - Whakaaro Pai and a broad range of high quality histology techniques Histology Laboratory.

Address

Department of Anatomy and Medical Imaging
Faculty of Medical and Health Sciences
University of Auckland
85 Park Road, Grafton
Auckland 1145, New Zealand

Medical Imaging Website

www.fmh.auckland.ac.nz/medical-imaging
Our postgraduate programmes

Postgraduate Certificate in Health Sciences (Medical Imaging)
includes:
- CT pathway
- Image Evaluation pathway

Postgraduate Certificate in Health Sciences (Mammography)

Postgraduate Diploma in Health Sciences (Medical Imaging)
includes:
- Nuclear Medicine pathway
- Image Evaluation pathway

Postgraduate Diploma in Health Sciences (Magnetic Resonance Imaging)

Postgraduate Diploma in Health Sciences (Ultrasound)

All of these 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 1.5 points, and are available only by distance learning (with the exception of the on-campus ultrasound course CLINIMAG 709). All of these courses are fully online and delivered via the University’s learning management system ‘CANVAS’. 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 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.

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.

The faculty also offers the following research degrees, which may be of interest to students who have already completed some postgraduate study:
- Master of Health Sciences – MHSc
- Doctor of Philosophy – PhD

The Medical Imaging Team

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Dr Jill Yielder
Honorary Senior Lecturer (Medical Imaging)
Email: j.yielder@auckland.ac.nz

Above: From left: Karen Wallis, Heather Gunn, Beau Pontré, Jenny Sim, Rhonda Joy Sweeney, Adrienne Young, Shelley Park and Catherine Lyman
I am passionate about helping others in my community so I chose to become a radiographer because I have a desire to touch lives and make an impact. I have also loved the online focus which has enabled me to extend my learning and to be challenged. This academic programme has allowed me to progress clinically into a second-in-charge position, working closely alongside my supervisor whilst putting my knowledge into practice. I am hoping that this qualification will lead me into a full time CT position, helping to train keen, like-minded technologists in CT.

Jenny Furniss
Postgraduate Certificate in Health Sciences (Medical Imaging – CT pathway) graduate works as a CT Technologist in Hamilton. Jenny commenced her programme of study at the University of Auckland while working in Melbourne, Australia.

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Postgraduate Certificate in Health Sciences (Medical Imaging – CT pathway) graduate works as a CT Technologist in Hamilton. Jenny commenced her programme of study at the University of Auckland while working in Melbourne, Australia.

“I am passionate about helping others in my community so I chose to become a radiographer because I have a desire to touch lives and make an impact. I have also loved the online focus which has enabled me to extend my learning and to be challenged. This academic programme has allowed me to progress clinically into a second-in-charge position, working closely alongside my supervisor whilst putting my knowledge into practice. I am hoping that this qualification will lead me into a full time CT position, helping to train keen, like-minded technologists in CT.”

Graduate profile
Graduates of the Postgraduate Certificate in Health Sciences in Medical Imaging will have the core attributes and skills of all certificate graduates and, in addition, will be able to:

- Apply a scientific body of knowledge relevant to a chosen medical imaging pathway
- Critically evaluate their own practice using an evidence-based approach
- Solve problems through systematic enquiry and critical reflection
- Adapt to a rapidly changing health care environment
- Integrate personal capabilities with professional practice

For more information:
www.auckland.ac.nz/medical-imaging

Postgraduate Certificate in Health Sciences (Medical Imaging) programme
The Postgraduate Certificate in Health Sciences (PGCertHSc) in Medical Imaging 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. Upon completion of the PGCertHSc in Medical Imaging students can progress to the PGDipHSc in Medical Imaging.

Students may choose to follow a CT or Image Evaluation pathway as seen in the tables to the right, or to develop a more personalised pathway to suit their individual needs. Please email the Medical Imaging team to confirm your proposed pathway meets the programme requirements.

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 the 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.

Graduate profile
Graduates of the Postgraduate Certificate in Health Sciences in Medical Imaging will have the core attributes and skills of all certificate graduates and, in addition, will be able to:

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For more information:
www.auckland.ac.nz/medical-imaging

Schedule of courses

Postgraduate Certificate in Health Sciences in Medical Imaging (Image Evaluation pathway)

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<td>CLINIMAG 717</td>
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Postgraduate Certificate in Health Sciences in Medical Imaging (CT pathway)

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<td>MRI Trauma Image Evaluation</td>
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Postgraduate Certificate in Health Sciences in Medical Imaging (pre-MRI pathway)

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Postgraduate Certificate in Health Sciences in Medical Imaging (pre-ultrasound pathway)

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Specialisations

PGCertHSc (Medical Imaging) programme

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Students may choose to follow a CT or Image Evaluation pathway as seen in the tables to the right, or to develop a more personalised pathway to suit their individual needs. Please email the Medical Imaging team to confirm your proposed pathway meets the programme requirements.

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 the 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.

Graduate profile
Graduates of the Postgraduate Certificate in Health Sciences in Medical Imaging will have the core attributes and skills of all certificate graduates and, in addition, will be able to:

- Apply a scientific body of knowledge relevant to a chosen medical imaging pathway
- Critically evaluate their own practice using an evidence-based approach
- Solve problems through systematic enquiry and critical reflection
- Adapt to a rapidly changing health care environment
- Integrate personal capabilities with professional practice

For more information:
www.auckland.ac.nz/medical-imaging

Schedule of courses

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Postgraduate Certificate in Health Sciences in Medical Imaging (pre-MRI pathway)

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Postgraduate Certificate in Health Sciences in Medical Imaging (pre-ultrasound pathway)

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Postgraduate Certificate in Health Sciences (Mammography)

PGCertHSc (Mammography) programme

The Postgraduate Certificate in Health Sciences (Mammography) provides a combination of academic and clinical elements ensuring graduates from this programme meet the mammography competencies as defined by the New Zealand Medical Radiation Technologists Board (MRTB).

Graduates of the Postgraduate Certificate in Health Sciences in 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. It is the responsibility of the student to obtain 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 demand 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 Practical). Students will not be able to compensate an inadequate clinical experience for their level of theory work. It is the responsibility of the student to obtain this position. It is also the responsibility of the student to ensure that the student has experienced a minimum of 300 clinical hours.

Workplace clinical requirements also 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 Practical). Students will not be able to compensate an inadequate clinical experience for their level of theory work. It is the responsibility of the student to obtain this position. It is also the responsibility of the student to ensure that the student has experienced a minimum of 300 clinical hours.

Graduate profile

PGCertHSc in Mammography

Graduates of the Postgraduate Certificate in Health Sciences in Mammography will have the core attributes and skills of all certificate graduates and, in addition, will be able to:
- Apply a scientific body of knowledge in the field of mammography.
- Critically evaluate their own practice using an evidence-based approach.
- Solve problems through systematic enquiry and critical reflection.
- Adapt to a rapidly changing health care environment.
- Integrate personal capabilities with professional practice.

Schedule of courses

Postgraduate Certificate in Health Sciences in Mammography

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<td>CLINIMAG 708</td>
<td>Mammographic Clinical Practice</td>
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For more information:

www.fmhs.auckland.ac.nz/mammography

Olivia Larsen

Postgraduate Certificate of Health Sciences (Mammography) graduate Olivia Larsen works as a Medical Imaging Technologist for the Waitemata District Health Board at North Shore Hospital in Auckland.

“I have always had an interest in mammography since first starting my degree as a Medical Imaging Technologist, as it is an area which is extremely patient focussed. Also having a family history of breast cancer gave me a different insight which further enhanced my skills. By having quarterly clinical assessments and reviews, it allowed my clinical competence to grow over time and improve in all aspects of the field of mammography.”

“Completing the coursework online was very helpful and being able to have discussions with fellow classmates made the coursework a lot easier as you could discuss ideas or ask questions if uncertain about anything. The teaching staff are all very helpful, and will respond quickly to any emails or discussions online making the postgraduate study a lot easier. This online learning community provides a good support group of others who are also undergoing the same experiences with postgraduate work.”

“The courses involved in the mammography postgraduate certificate are all relevant to the job and each focus on different aspects of the job. The theory work allowed my knowledge to be expanded to then be put into practice within my clinical placement. The assignments are all different and each have a point of focus related to mammography which further enhanced my skills. By having quarterly clinical assessments and reviews, it allowed my clinical competence to grow over time and improve in all aspects of the field of mammography.”
Zoe Campton
Postgraduate Diploma in Health Sciences (Medical imaging) graduate Zoe Campton works for Auckland District Health Board as a Medical Imaging Technologist.

“I love learning new things and doing my postgraduate diploma has given me a way to enhance my interests in image evaluation and clinical supervision. I started out by enrolling in a Postgraduate Certificate, and because I enjoyed it so much, this soon became a Diploma, and now I’ve enrolled in a Masters!

“I’m currently working in a general x-ray department at a major trauma/teaching hospital so all of my courses have been relevant to what I see at work. I also enjoy being able to help the students at my workplace with their learning – I feel like I can answer most of their questions without having to refer to a textbook now!

“The on-campus events are a great way to meet other Medical Imaging students, and a great way to put a face to the names you read online. The lecturers are fantastic and are always around to answer questions, and the other students I have been studying with are now good friends of mine which is a great support network as we can bounce ideas off each other.

“Postgraduate study is challenging, but it is so rewarding. Finding that work/life/study balance has been hard, but the knowledge I have gained has been worth the extra work. Being more confident in clinical decision making is a huge benefit of undertaking study. It is also really satisfying to recognise something on an image and then follow up and realise you got it right!”

Postgraduate Diploma in Health Sciences (Medical Imaging)

PGDipHSc (Medical Imaging)
The Postgraduate Diploma in Health Sciences (PGDipHSc) in Medical Imaging 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.

Graduates of the PGDipHSc in 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.

Graduate profile
Graduates of the Postgraduate Diploma in Health Sciences in Medical Imaging will have the core attributes and skills of all diploma graduates and graduates of the Postgraduate Certificate in Health Sciences in Medical Imaging. In addition, they will be able to:

- Contribute to the development of advanced practice in medical imaging,
- Develop ideas and lead strategies to improve medical imaging practice,
- Accept professional responsibilities related to leadership, supervision and management.

Postgraduate Diploma in Health Sciences in Medical Imaging (Image Evaluation pathway)

Course Code Course Name $1 $2
MEDIMAGE 701 Imaging Anatomy and Pathology ▪ ▪
MEDIMAGE 702 Professional Issues in Medical Imaging ▪ ▪
MEDIMAGE 711 MSK Trauma Image Evaluation Availability dependent on student numbers
MEDIMAGE 712 MSK Pathology Image Evaluation
MEDIMAGE 716 Paediatric Image Evaluation
MEDIMAGE 718 Acute Chest Image Evaluation
MEDIMAGE 719 Paediatric Image Evaluation
15 points from Approved Research Methods course OR Elective course
Dependent on student choice

For more information:
www.auckland.ac.nz/medical-imaging
Rachel Barrass
Postgraduate Diploma of Health Sciences (Medical Imaging) student Rachel Barrass works as a Trainee Nuclear Medicine Technologist at Specialist Radiology & MRI in Auckland.

“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 advisors 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.

“I am anticipating that this qualification will enable me to be a confident and competent Nuclear Medicine Technologist. After completing my postgraduate studies I intend to focus on consolidating my existing knowledge base, then maybe consider further study in the future.”

Postgraduate Diploma in Health Sciences (Medical Imaging – Nuclear Medicine pathway)

PGDipHSc (Medical Imaging) – Nuclear Medicine pathway

The Postgraduate Diploma in Health Sciences (Medical Imaging – Nuclear Medicine pathway) 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). Graduates of the PGDipHSc in Medical Imaging (Nuclear Medicine pathway) 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 Nuclear Medicine.

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

Graduates of the PGDipHSc in Medical Imaging (Nuclear Medicine pathway) 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 Nuclear Medicine. Graduates will also be able to advance to Masters 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. It is the responsibility of the student to obtain 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).

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 pathway, 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 workplace throughout the duration of their enrolment within this programme. Students will not be able to compensate an inadequate workplace clinical requirement for a more supportive, knowledgeable Clinical Supervisor. 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.

Graduate Profile

PGDipHSc in Medical Imaging (Nuclear Medicine pathway)

Graduates of the Nuclear Medicine pathway in the Postgraduate Diploma in Health Sciences (Medical Imaging) will have the core attributes and skills of all diploma graduates and, in addition, will be able to:

- Adapt to a rapidly changing health care environment
- Integrate personal capabilities with professional practice
- Develop ideas and lead strategies to improve Nuclear Medicine practice
- Accept professional responsibilities related to leadership, supervision and management

Schedule of courses

Postgraduate Diploma in Health Sciences in Medical Imaging (Nuclear Medicine pathway)

Course Code Course Name $1 $2
MEDIMAGE 701 Imaging Anatomy and Pathology • •
MEDIMAGE 702 Professional Issues in Medical Imaging • •
MEDIMAGE 720 Fundamentals of Clinical Nuclear Medicine •
MEDIMAGE 708 Nuclear Medicine Technology Not offered in Semester 3, 2019
CLINIMAG 705 Nuclear Medicine Clinical Applications
CLINIMAG 706 Nuclear Medicine Specialised Clinical Applications •
CLINIMAG 716 Nuclear Medicine Clinical Practice ••

1.5 points from Approved Research Methods course OR Elective course Dependent on student choice

For more information

www.fmhs.auckland.ac.nz/nuclear-medicine
Ever since finishing my undergraduate studies, I knew I chose to study at the University of Auckland as the MRI Moana Tipene-Boyd (Pacific Admission Scheme) that can help in many aspects of programme offered here is well renowned. I also like that further my skill set as an MRT.

The teaching staff are very supportive and offer a safe online learning environment. Distance learning can be very challenging at times, so being comfortable with class mates and lecturers is very important in order to succeed. I found orientation very useful as a first time online distance learner. It helped me to be able to navigate and became familiar with the learning platform that I would use for the duration of my postgraduate studies. I was also able to meet others who were on my course, who we often reach out to if we need support or advice.

"The academic programme has been a great help in my clinical training as I find the course work and assessments very relevant to my clinical practice. I would learn something in academic and be shown how to put it to use in the clinical side, or on the other hand be shown something in my clinical training and it be supported and further explored through the academic curriculum."

"The academic programme has been a great help in my clinical training as I find the course work and assessments very relevant to my clinical practice. I would learn something in academic and be shown how to put it to use in the clinical side, or on the other hand be shown something in my clinical training and it be supported and further explored through the academic curriculum."

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I chose to study at the University of Auckland as the MRI programme offered here is well renowned. I also like that there are support groups there such as MAPAS (Māori and Pacific Admission Scheme) that can help in many aspects of your study such as essay writing.

Moana Tipene-Boyd Postgraduate Diploma of Health Sciences (MRI) student Moana Tipene-Boyd works as a trainee MRT Technician at Northland District Health Board in Whangarei. "Ever since finishing my undergraduate studies, I knew that MRI was the modality that I wanted to pursue. I chose this modality as I believe MRI is the way of the future. The technology behind it is ever changing and the amazing images that we produce are getting better and better all the time with advancing technology. It is a very complex imaging modality to grasp, but I am eager to keep learning and further my skill set as an MRT."

I chose to study at the University of Auckland as the MRI programme offered here is well renowned. I also like that there are support groups there such as MAPAS (Māori and Pacific Admission Scheme) that can help in many aspects of your study such as essay writing.

The academic programme has been a great help in my clinical training as I find the course work and assessments very relevant to my clinical practice. I would learn something in academic and be shown how to put it to use in the clinical side, or on the other hand be shown something in my clinical training and it be supported and further explored through the academic curriculum. The teaching staff are very supportive and offer a safe online learning environment. Distance learning can be very challenging at times, so being comfortable with class mates and lecturers is very important in order to succeed. I found orientation very useful as a first time online distance learner. It helped me to be able to navigate and become familiar with the learning platform that I would use for the duration of my postgraduate studies. I was also able to meet others who were on my course, who we often reach out to if we need support or advice.

I hope that this qualification will take me around the world (eventually). I also hope that by gaining this qualification, I can inspire other Māori to pursue a career in Medical Imaging and/or further their studies in Medical Imaging."
The Postgraduate Diploma in Health Sciences (Ultrasound) 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). Graduates of the PGDipHSc in 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 Masters 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. It is the responsibility of the student to obtain 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.fmhs.auckland.ac.nz/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 1000 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 requirement 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 and kiwihealthjobs.com. We offer Medical Imaging practitioners and graduates from other health science related fields such as biomedical science, or an allied health profession such as nursing or physiotherapy, 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!

Please note that ultrasound training positions are very highly sought after (particularly in Auckland) and you will need to be very committed to this pathway to succeed.

Graduate Profile

PGDipHSc in Ultrasound
Graduates of the Postgraduate Diploma in Health Sciences in Ultrasound will have the core attributes and skills of all diploma graduates and, in addition, will be able to:

- Apply a scientific body of knowledge in the field of ultrasound,
- Contribute to the development of advanced practice in ultrasound,
- Critically evaluate their own practice using an evidence-based approach,
- Solve problems through systematic enquiry and critical reflection,
- Adapt to a rapidly changing health care environment,
- Integrate personal capabilities with professional practice,
- Develop ideas and lead strategies to improve Medical Imaging practice,
- Accept professional responsibilities related to leadership, supervision and management.

Schedule of courses

Postgraduate Diploma in Health Sciences in Ultrasound

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>S1</th>
<th>S2</th>
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<tbody>
<tr>
<td>MEDIMAGE 701</td>
<td>Imaging Anatomy and Pathology</td>
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<tr>
<td>MEDIMAGE 702</td>
<td>Professional Issues in Medical Imaging</td>
<td>*</td>
<td>*</td>
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<tr>
<td>MEDIMAGE 716</td>
<td>Fundamentals of Clinical Ultrasound*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>CLINIMAG 709</td>
<td>Principles of Clinical Ultrasound OR</td>
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<tr>
<td>CLINIMAG 719</td>
<td>Ultrasound Abdominal Clinical Applications</td>
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<td>Ultrasound Imaging Technology</td>
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<td>CLINIMAG 713</td>
<td>Ultrasound Clinical Applications in Obstetrics and Gynaecology</td>
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<tr>
<td>CLINIMAG 715</td>
<td>Ultrasound Clinical Practice</td>
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</tbody>
</table>

*Please ensure you pre-requisites for all ultrasound specific courses are met before you register.

For more information

www.fmhs.auckland.ac.nz/ultrasound

Tess Rutledge

Postgraduate Diploma of Health Sciences (Ultrasound) student Tess Rutledge works as a trainee sonographer at TRG Imaging in Auckland. Tess entered the programme with a Bachelor of Science undergraduate degree in Physiology after successfully obtaining a clinical training position in ultrasound.

“I became a trainee sonographer because I wanted a career which incorporated clinical patient contact, problem solving and academic learning. I see ultrasound as a career that will be challenging and rewarding for me as someone whose interests lie in human anatomy and physiology, but also as someone who enjoys interacting with people of all ages and backgrounds. Within the scope of sonography, there is opportunity for specialisation and lifelong learning.”

“I chose to study at the University of Auckland because their ultrasound qualification is internationally recognised so you can work overseas. My undergraduate Physiology degree was also through the University of Auckland so it was a very logical transition for me!”

“I love the clinical nature of the postgraduate ultrasound programme. The online and on-site courses are structured to support and complement aspects of clinical practice. I enjoy the practical side of the learning and find it easier and more interesting to learn when you can see the direct relevance of the knowledge, and know you might need to utilise it at any time.

“The 12-week intensive course programme, taught on-site at the Grafton campus, teaches key competencies for sonographers in clinical practice – communication, professionalism, clinical decision making and clinical training. This course provides a great foundation and allows trainees to return to their work places and contribute positively straight away.

“I expect that sonography will be a challenging, dynamic career and hope that I will be able to work in a wide range of clinical settings, both in New Zealand and overseas. There are also options for transitioning into more specialist areas of ultrasound, to further academic study or research, and to teaching.”

Is a postgraduate ultrasound course worth it?
**Course descriptions**

**MEDIMAGE 707**
Mammographic Technology

Provides students with an in-depth understanding of mammographic technology and its application. The course addresses scientific principles of the modality, including image formation, radiographic parameters, quality assurance, and the modality’s role in the clinical setting. Students will develop the ability to provide a preliminary clinical image evaluation of mammograms.

**MEDIMAGE 708**
Nuclear Medicine Technology

Provides students with an in-depth understanding of Nuclear Medicine technology and its application. The course addresses scientific principles of the modality, including image formation and reconstruction, technical parameters, quality assurance, and the modality’s role in the clinical setting. Students will develop the ability to provide a preliminary clinical image evaluation of Nuclear Medicine images.

**MEDIMAGE 709**
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 critical analysis, students will develop the ability to provide a preliminary clinical image evaluation of common musculoskeletal trauma radiographs.

**MEDIMAGE 710**
Magnetic Resonance Imaging Evaluation

Provides students with the knowledge to evaluate magnetic resonance images in the clinical setting. Students will develop the ability to provide a preliminary clinical image evaluation of common magnetic resonance images.

**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 critical analysis, students will develop the ability to provide a preliminary clinical image evaluation of common musculoskeletal trauma radiographs.

**MEDIMAGE 712**
Musculoskeletal Pathology Image Evaluation

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

**MEDIMAGE 713**
Fundamentals of Clinical MRI

Provides a fundamental understanding of MRI technology and its application. The course addresses scientific principles of the modality, including image quality and quality assurance, technical parameters, and applications. Students will develop the ability to provide a preliminary clinical image evaluation of common MRI images.

**MEDIMAGE 714**
Pediatric Imaging Evaluation

Provides students with the knowledge to evaluate radiographs of common pediatric pathology in the clinical setting. Students will develop the ability to provide a preliminary clinical image evaluation of common pediatric imaging.

**MEDIMAGE 715**
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 techniques. Students will develop the ability to provide a preliminary clinical image evaluation of common CT images.

**MEDIMAGE 716**
MRI Technology

Provides an in-depth understanding of MRI technology and its applications. The course addresses scientific principles of the modality, including image quality and quality assurance, technical parameters, and contrast agents. Students will develop the ability to provide a preliminary clinical image evaluation of common MRI images.

**MEDIMAGE 717**
Ultrasound Imaging Technology

Provides students with the knowledge to evaluate and interpret ultrasonic images in the clinical setting. The course addresses Doppler principles, artifacts, and instrumentation, and its application.

**MEDIMAGE 718**
Acute Chest Image Evaluation

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

**MEDIMAGE 719**
Paediatric Image Evaluation

Provides students with the knowledge to evaluate radiographs of common paediatric pathology in the clinical setting. Students will develop the ability to provide a preliminary clinical image evaluation of common paediatric imaging.

**MEDIMAGE 720**
Fundamentals of Clinical Nuclear Medicine

Provides a fundamental understanding of Nuclear Medicine technology and its application. The course addresses scientific principles of the modality, including radioactivity, radiation detection and decay, dosimetry, and radioisotope quality assurance. Students will develop the ability to provide a preliminary clinical image evaluation of common Nuclear Medicine images.

**MEDIMAGE 721**
MRI Safety

Provides students with the knowledge to evaluate MRI images in the clinical setting. Students will develop the ability to provide a preliminary clinical image evaluation of common MRI images.

**MEDIMAGE 722**
Fundamentals of Clinical Ultrasound

Provides students with the knowledge to evaluate radiographs of common musculoskeletal pathology in the clinical setting. Using a systematic method of image interrogation and critical analysis, students will develop the ability to provide a preliminary clinical image evaluation of common musculoskeletal pathology radiographs.
**CLINIMAGE 714**

Ultrasound Clinical Applications*

Addresses normal and abnormal ultrasound imaging appearances, in addition to adaptation of scanning techniques relating to the abdomen, musculoskeletal system, vascular system, small parts and paediatric imaging.

Prerequisite: CLINIMAGE 709 or MEDIMAGE 716

Restriction: CLINIMAG 704

* Only students enrolled in the PGDipHSc(Ultrasound) prior to 2018 are eligible for entry to this course

**CLINIMAGE 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: 90 points and departmental approval required

**CLINIMAGE 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: 90 points and departmental approval required

**CLINIMAGE 717**

CT Clinical Applications

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

The course will ensure students develop the knowledge, skills and attitudes needed to demonstrate both academic and professional clinical decision making capability in CT practice.

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

Restriction: CLINIMAGE 707

**CLINIMAGE 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.

Corequisite: MEDIMAGE 714

Restriction: CLINIMAGE 704, 714

**CLINIMAG 720**

Ultrasound Specialised Clinical Applications

Addresses normal and abnormal ultrasound imaging appearances, scanning techniques and applications associated with musculoskeletal, vascular, small parts and paediatric 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: CLINIMAGE 704, 714

**Course schedule 2018**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>S1</th>
<th>S2</th>
<th>Course Coordinator</th>
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<tbody>
<tr>
<td>MEDIMAGE 701</td>
<td>Imaging Anatomy and Pathology</td>
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<td>Adrienne Young</td>
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<td>MEDIMAGE 702</td>
<td>Professional Issues in Medical Imaging</td>
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<td>As required</td>
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<td>✧</td>
<td>✧</td>
<td>Adrienne Young</td>
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</tr>
<tr>
<td>CLINIMAG 720</td>
<td>Ultrasound Specialised Clinical Applications</td>
<td>Next offered in Semester 1 2019</td>
<td></td>
<td>Karen Walls</td>
</tr>
</tbody>
</table>

*This course schedule lists all courses that will be offered in 2018 (subject to sufficient student numbers)
Postgraduate Certificate in Health Sciences

Eligibility
To gain admission to the Mammography or Medical Imaging specialisations a student needs to have completed an undergraduate degree in Medical Imaging or an equivalent qualification, and hold current registration with the New Zealand Medical Radiation Technologists Board or as a Medical Radiation Technologist in their country of domicile. In addition, for the PGCertHSc (Mammography), the student must have adequate access to clinical work to undertake the programme in circumstances approved by the University of Auckland. Entry to the PGCertHsc (Mammography) programme is restricted to students who have already obtained a relevant clinical training position in a University of Auckland approved Radiology/Medical Imaging/BreastScreen Aotearoa department.

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.

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

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 post graduate 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.

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 medicalimaging@auckland.ac.nz regarding the application process for withdrawals, late deletions and suspensions of study.

Postgraduate Diploma in Health Sciences

Eligibility
To gain admission to the Magnetic Resonance Imaging, Ultrasound or Medical Imaging specialisations a student needs to have completed an undergraduate degree in Medical Imaging or an equivalent qualification, and hold current registration with the New Zealand Medical Radiation Technologists Board or as a Medical Radiation Technologist in their country of domicile. In addition, the student must have adequate access to clinical work to undertake the programme in circumstances approved by the University of Auckland. Entry to the PGDipHSc (MRI), PGdipHSc (Ultrasound) and PGdipHSc (Medical Imaging – Nuclear Medicine pathway) programmes provide a route to registration for Magnetic Resonance Technologists, Sonographers and Nuclear Medicine Technologists in New Zealand. These programmes have been accredited by the New Zealand Medical Radiation Technologists Board (NZMRTB).

Eligibility
To gain admission to the Magnetic Resonance Imaging, Ultrasound or Medical Imaging specialisations a student needs to have completed an undergraduate degree in Medical Imaging or an equivalent qualification, and hold current registration with the New Zealand Medical Radiation Technologists Board or as a Medical Radiation Technologist in their country of domicile. In addition, the student must have adequate access to clinical work to undertake the programme in circumstances approved by the University of Auckland.

Entry to the PGDipHSc (MRI), PGdipHSc (Ultrasound) and PGdipHSc (Medical Imaging – Nuclear Medicine pathway) programmes are restricted to students who have already obtained a relevant clinical training position in a University of Auckland approved Radiology/ Medical Imaging department.

Postgraduate diplomas (PGDipHSc) 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) and PGdipHSc (Medical Imaging) programmes offer courses suitable for registered Medical Imaging Technologists who wish to advance their career and/or professional development. Within the Medical Imaging specialisation, students can choose their own combination of courses to suit their professional needs or follow prescribed pathways in CT or Image Evaluation.

Often students begin with this qualification if their professional needs or follow prescribed pathways in CT or Image Evaluation.

Postgraduate diplomas consist 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 medicalimaging@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. Please see the schedule of courses in the Table 9.1 - Detailed Information on Admission Criteria, Structure and Content of Courses. www.auckland.ac.nz/healthsci

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 two years of initial enrolment. Details of the enrolment and eligibility requirements are found in the Calendar Regulations for the Postgraduate Diploma in Health Sciences.

Eligibility for entry, timeframes and regulations

Eligibility for entry, timeframes and regulations
The Degree of Master of Health Sciences – MHSc

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, background, methods, 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 constitutes 90 points (Audiology) or 110 points (all other masters) and is a formal body of academic research which should display the following:

- It should constitute an investigation designed to answer a question or 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.

Eligibility for entry, timeframes and regulations

Darren Watts
Master of Health Sciences student Darren Watts works as an MRI Technologist at Dunedin Public Hospital. Darren commenced his study at the University of Auckland as one of the inaugural MHSc student cohort.

“My Master’s research is centred around the recently discovered accumulation of gadolinium based MRI contrast agents in the brain. My main aims are to establish the most robust method to measure this accumulation using MRI, to use this method to discover the extent of accumulation in patients scanned at Dunedin Hospital, and to contribute to international understanding of this topic. This research is important because a better understanding of the effects of gadolinium contrast media will hopefully improve patient safety.

“I chose to complete my Master’s degree at the University of Auckland because I had already established a relationship with many of the teaching staff through the postgraduate diploma I completed previously. I was particularly impressed with their ability to deliver course content to a class who were separated by both ability and distance. Being based in Dunedin, this was an important factor in my decision to return to the university.

“In the short term this qualification will help consolidate my knowledge of MRI contrast media and help guide the administration protocols in our department. Longer term, I hope this qualification will open the door to further study.”

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 it’s equivalent with an average grade of 8 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 794 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
AND
60 points: from the courses listed in the Master of Health Sciences Schedule
OR
60 points: PONHLTH 755 Applied Research Project
AND
60 points: from the courses listed in the Master of Health Sciences Schedule

Contact
Medical Imaging Masters Advisor
Associate Professor Jenny Sim
Email: j.sim@auckland.ac.nz

In the short term this qualification will help consolidate my knowledge of MRI contrast media and help guide the administration protocols in our department. Longer term, I hope this qualification will open the door to further study.”
New students

Admission
For information regarding application for admission in 2019, students should visit The University of Auckland website: www.auckland.ac.nz/admission-and-enrolment

All students need to provide the documents listed below with their application. These should be a photocopy of the original endorsed with the statement: Original sighted, Certified true copy. By a person authorised to sign a Statutory Declaration, such as a JP, Solicitor or a duly authorised member of staff of The University of Auckland.

- 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, eg, 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.

Electronic copies of all documents must be submitted digitally during the application process in addition to posting hard copies to the university.

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

Applications are reviewed by the Faculty of Medical and Health Sciences. Students are advised to apply online, and to send required documentation to the University of Auckland.

Admission without an undergraduate degree
The University of Auckland allows MRIs 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 may apply for either the Postgraduate Certificate in Health Sciences or Postgraduate Diploma in Health Sciences.

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 - this is the first:
Submit the online Application for Admission: www.auckland.ac.nz/apply_now
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 your courses online.

When should I enrol?
Students can enrol from the first Monday in 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, however, you should notify the University of Auckland of any change of address as soon as possible.

Enrolment
Applying for an enrolment concession
For some course 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 error.
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.
12. The Apply for a concession page will appear, showing the course(s) that can be submitted.
13. Click on the select button to change from ‘no’ to ‘yes’ to select a course and apply for an enrolment concession.
14. Select the concession reason that matches your circumstances from the drop-down list.
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 Concessions Requests.
3. Select the term (semester) of the course you have deblocked.

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.

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

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

Applying for a place in a programme(s)
Go to www.auckland.ac.nz
Click on the red ‘Apply Now’ button
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.

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

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/uaa

Enrol in your choice of courses
Enrol in your chosen courses via the online Student Services Online system: www.studentservices.auckland.ac.nz/uaa/soo-enrol-in-course

Congratulations! You are now a student at the University of Auckland
How to apply and enrol online

This guide will help you to complete the online Application for Admission to the University of Auckland.

1. To begin your application, please apply online via: www.apply.auckland.ac.nz.
   Have you applied or registered before? Have you applied or registered before?
   Please use your student ID number, or email address and password to log in. If you do not remember your login details please phone 0800 61 62 63 or email onelogon@auckland.ac.nz
   OR
   Is this your first time applying with us?
   Click, ‘Sign up for a new account’ below the Password entry field. Proceed through to the ‘Register for a new account’ page to start entering in your personal details and set up your log in details for future access.

2. To complete your Application for Admission please ensure you have provided all your personal information required and details of your academic history and qualifications.

3. The next step is to complete the Programme Selection. Please choose the following:

   - Programme type:
     e.g., Postgrad Diploma/Certificate
   - Start term:
     Choose the appropriate term
   - Campus:
     Select ‘Unspecified within New Zealand’
   - Major or specialisation:
     e.g., Medical Imaging, Mammography, MRI or Ultrasound*

   *Note: You must have a Medical Imaging undergraduate qualification to select Medical Imaging. You must have a clinical training position to select Mammography, MRI or Ultrasonass. All other students must select Health Science as their specialisation.

2. Go to the next page and complete the Supplementary Information section:
   - Term: Choose the appropriate term
   - Subjects: Select the subject you intend to study from the drop down list, e.g., Clinical Imaging or Medical Imaging
   - Course name: Select the appropriate course from the drop down list. This is an indication only. This does not mean you are enrolled.
   - Specific questions: Answer all questions

3. Complete the remainder of the application. Once all sections are complete you will be able to submit your application. On the summary page you can update any sections if necessary.

4. Click on the declaration. Read and make sure you understand the declaration. You must select I agree to be able to submit your application.

5. Click on the Submit button. You will receive an acknowledgement email from us within two working days.

What happens next? See next page.
What happens next?

1. Check your email
The acknowledgement email will be sent to the email address you registered your application with. It will include a list of specific certified documents (and, in some cases, other requirements) necessary to assess your application.
This email will also include your Student ID number. Check your application status by signing into your online Application for Admission > Your applications via www.apply.auckland.ac.nz

2. What supporting documents are required?
The following requested documents are required in order for us to accurately assess your application for admission, as you will be entering formal postgraduate level study at the University. You will be required to submit the following:
- recent (no older than six months), professional, colour passport-size 1 ID photo. You can upload your 1D photo from your Application for Admission > Things you need to do list.
- Proof of your academic credentials such as all your official academic transcripts, official programme completion certificates eg, your completion certificate when you graduated such as a copy of your current MRTB annual Practice certificate. You can upload these also from your Application for Admission > Things you need to do list. A certified hard copy of these documents may be required in future for auditing purposes.
- Proof of your identity such as a certified hard copy of the photo page of your passport. NZ and Australian applicants may alternatively provide a certified hard copy of their birth certificate or Citizenship Certificate. If you hold a foreign passport, please ensure you provide certified hard copies of any relevant visas (eg, NZ Residence Visa). You will not be able to upload these. For more information see “How do I submit copies of my identity documents?” below.

For full details please check your online Application for Admission > Things you need to do via www.apply.auckland.ac.nz

3. Assessment of your application and offer of place
This may take three to four weeks during peak admission periods. You will be notified of the outcome of your application by email.
You can check the status of your Application for Admission at any time by signing into your online Application for Admission > Your applications via www.apply.auckland.ac.nz

4. Accept your offer of place online
Sign into your Application for Admission at www.apply.auckland.ac.nz and select Accept. Congratulations! You are now a student at the University of Auckland. All communication from now will be to your university email. You can start enrolling into your courses.

How do I obtain certified copies of documents?
Staff at the Student Information Centre are able to make hard copies and certify documents for admission purposes. Alternatively, if you are in New Zealand, a Justice of Peace (JP), Solicitor; Notary Public can certify hard copies of your documents. A certified document is a copy of the original endorsed with the statement “Original sighted. Certified true copy”, and where the full details of the certifier are included.

Please ensure that your certified documents reach us as soon as possible to ensure smooth processing of your application.

How do I submit copies of my identity documents?
You can submit hard copies of your identity documents (eg, passport, birth certificates etc) by post or in person. Our contact details are below.

| By post: Applications and Admissions The University of Auckland Private Bag 92019 Auckland 1142 New Zealand | In person: Student Information Centre The ClockTower Level 1 (Ground Floor), Room 112 22 Princes Street City Campus Open: Monday to Friday 8am-4pm Closed: on public holidays |

If you are unable to source and submit any of your Academic Transcripts that have been requested for assessment, it is important that you notify us as soon as possible, outlining what you are unable to submit and why, by emailing admission@auckland.ac.nz

Fees and funding

Fees
Information about fees is listed on The University of Auckland Calendar 2018 and is available at www.auckland.ac.nz/osa/fp-tuition-fees
Under government to government reciprocal agreements students from Australia and 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.

Tuition fees 2018
MEDICINE courses
Domestic students: $11,526.55 International students: $12,395.75
CLINICOM courses
Domestic students: $11,316.55 International students: $12,294.30

University awards, scholarships and grants
The University of Auckland offers postgraduate students a wide variety of awards, scholarships, and research grants.
For more information on funding: www.auckland.ac.nz/osa/cs-postgraduate-research-funding
For information on internal scholarship opportunities, see the University of Auckland Scholarships and Awards website: www.auckland.ac.nz/scholarships or email scholarships@auckland.ac.nz
For information on a range of external awards, see the Universities NZ website: www.universitiesnz.ac.nz
For a list of upcoming scholarships closing soon, see “Scholarship closing dates”: www.auckland.ac.nz/scholarships-closing

University of Auckland Masters, Honours and PGDip Scholarships
The University of Auckland Masters, Honours and PGDip Scholarships are highly competitive and as such are awarded to the very highest achieving students.
In the recent past the GPA of successful recipients has been around 7.50 or above (assessed by the Scholarships GPA over the last two years of full time graded study, or equivalent). Māori and Pacific Island students are encouraged to also apply for the University of Auckland Māori and Pacific Graduate Scholarships.

Changing programmes

Students enrol in the programme specific to their clinical specialisation. If for any reason a change of programme is required, students must first contact the Medical Imaging Programme Coordinator by email at medicalimaging@auckland.ac.nz
When a decision to change programmes has been approved, then the student needs to apply to do so, on Student Services Online (SSO) at the following link: www.studentservices.auckland.ac.nz

Apply to change your programme
To change your programme at The University of Auckland, you simply apply for the new one online. This applies to students who are changing from a postgraduate certificate to postgraduate diploma programme when a clinical training position is secured.
If you receive and accept an offer of place for the new programme, you should withdraw from your current programme by contacting the Faculty student centre.
Website: www.auckland.ac.nz/osa/cs-sf-faculty-student-centres

Apply to change your plan
If you want to change your plan (major, minor or specialisation) but not your programme (degree, diploma or certificate), please contact your Faculty student centre. This applies to students who are enrolled in the Postgraduate Diploma (Medical Imaging) or a generic postgraduate diploma in Health Sciences and need to change specialisation when securing a clinical training position.
Faculty Student Centre
Ground Floor, Building 503, Faculty of Medical and Health Sciences, 85 Park Road, Grafton, Auckland
Phone: 64 9 323 2760
Fax: 64 9 323 2380
Email: fmhs@auckland.ac.nz

Changing course enrolment

Deletions
If you drop (delete) a course by the deadline, we’ll refund your fees for the course and it will not appear on your academic record.

Deadline for Deletions
Semester One courses: second Friday of semester
Semester Two courses: second Friday of semester

Withdrawals
A withdrawal is when you drop a course after the deadline. If you are considering withdrawing from a course, think this decision through carefully and seek help and advice before proceeding.
If you withdraw from a course, please be aware that:
- You will not receive a refund of fees for the course(s) you withdraw from.
- The course will remain on your academic record as a Withdrawal (W), which is counted as a 0 (zero) when your GPA is calculated.
- The course you withdraw from is counted as a failed course for purposes such as student allowance applications, and satisfactory progress regulations.

2017 Deadlines for Withdrawals
Semester 3 courses: Friday 9 March 2018
Semester 2 courses: Friday 27 July 2018

Late Deletion
Late Deletion is available to students who are unable to continue with their study because of exceptional circumstances such as illness, injury or events beyond their control. Applications must include independent evidence to verify the circumstances.
Circumstances that would not normally qualify for late deletion are situations that were known at the point of enrolling, were due to personal choice (eg financial circumstances, accepting a job offer) or Grade Point Average concerns. Please contact the Medical Imaging Programme Coordinator by email at medicalimaging@auckland.ac.nz so that they can explain how this process may impact on your programme and progression - you will not be required to explain your circumstances.
The University of Auckland resources and facilities

Libraries and Learning Services

Libraries and Learning Services provide resources, workshops and advice to support staff and students in their teaching, learning and research activities. The Philson Library, Grafton Information Commons, Medical Imaging Subject Librarian and Student Learning Advisors offer a range of resources and advice to help you succeed in your postgraduate study.

Philson Library

Medical and Health Sciences

The Philson Library is located on the first floor, Building 503 on the Grafton Campus. The collection of print and electronic resources supports student learning and research, and all staff will assist you to find the information you need. There are computers, borrowable laptops, and printer/photocopiers available in the library along with group and individual study spaces. For full contact details and opening hours go to: www.library.auckland.ac.nz/about-us/libraries/philson

To borrow or access resources from the Philson Library, students need a current University ID card. For more information see: www.auckland.ac.nz/oa/a-id-cards

Libraries and Learning Services website

www.library.auckland.ac.nz

The Libraries and Learning Services website provides access to various online resources and guides including information about referencing. For specific resources in the Medical & Health Sciences including Medical Imaging go to the Libraries and Learning Services website, select: Subject Guides -> Medical & Health Sciences

Flexible Service – distance students

A flexible service is available to students of the Faculty of Medical & Health Sciences. You may request books or journal articles to be sent to you, whether or not they are held in a University of Auckland Library. For more information: www.library.auckland.ac.nz/flexible-service

Intercampus requests

The intercampus service allows you to obtain books or photocopies of articles held in other libraries within The University of Auckland, e.g. Tamaki Library, General Library. Search the Catalogue for the item you require, click on the ‘Request’ tab and fill in the appropriate details. Flexible students should select ‘Flexible – Medical’ as the pickup location (after registration, see Flexible Service above).

Interloan requests

To obtain books or journal articles not held in a University of Auckland Library, fill in the online form: www.library.auckland.ac.nz/interloans

Note: Electronic delivery of articles to students by email can only be made to their University of Auckland email address.

Associate Membership

Access to the library is suspended for students enrolled in a programme of study who are not enrolled in a course. If you would like access, you may pay to be an Associate Member. For more information including fees see: www.library.auckland.ac.nz

Click About -> Membership -> Associate Membership

Subject Librarian: Fran Clements

Fran Clements

Subject Librarian: School of Medical Sciences Philson Library/Ta Henenga Hauora
The University of Auckland
Private Bag 92019
Auckland Mail Centre
Auckland 1149
New Zealand

Direct Dial: (09) 923 9191
Internal: ext 89119
Fax: (09) 374 1328
Email: f.clements@auckland.ac.nz

Copy and print service

Photocopying and printing services are available in the Philson Library and the Grafton Information Commons. Your University ID card is your photocopying/printing card. An ePOS machine for loading money onto an ID card is located in the Grafton Information Commons. The cost is 20 cents per A4 copy, or 50 cents per A4 colour copy.

Grafton Information Commons

Offers more than 80 computers which provide access to a wide range of software and internet resources. In addition there are scanners, printer/photocopiers, a HelpDesk Service, and a range of casual seating.

After hours

Students and staff will need to carry their university ID and access cards at all times to allow entry and internal movement around the Grafton Campus buildings and facilities. However, public access to the Café and Library will continue to remain available during normal opening hours. The atrium main entrance is open Monday to Friday at 7am and its closure depends on the library hours. During weekends it is open according to the library.

Students may be in the building when the library or information Commons is open or if they have scheduled teaching or tests. Postgraduates may have access outside of these times if permission is obtained from a supervisor however nobody may be here alone at any time.

University of Auckland Systems

Username and password

All students have a username and password, in addition to your Student ID number. Your username and password allow you to:

• Log in to computers in the Library, Information Commons and computer labs.
• Access library electronic resources off campus, ie, databases, e-journals and course readings.
• Access the internet on campus.
• Use the Copy and Print Service (CAPS) on campus.
• Access student email.
• Access Canvas and Student Services Online (SSO).
• Access to your electronic clinical portfolio.

Student email

Each student is allocated an email address. Your address is your username then the electronic campus email address: eg. jbon007@aucklanduni.ac.nz

To access your email from The University of Auckland website, use the Quick Links dropdown menu and select Student email.

www.auckland.ac.nz

Note: All official university communications go to your university (electronic campus) email. Check it regularly or redirect to your preferred email address, e.g. home or work.

Student Services Online

Student Services Online is the University’s academic management system, which students access online.

Student Services Online allows you to apply for admission to the University, enrol in classes, update your details and much more.

Website: www.studentservices.auckland.ac.nz

Phone: 0800 63 63 63
Email: studentinfo@auckland.ac.nz

Use Student Services Online to:

• Find out about courses available.
• View your programme requirements.
• Enrol in and delete courses.
• Keep contact details updated.
• View your academic records.
• Apply for graduation.
• Change your programme.

Student Services Online has video tutorials and an online Help function, to guide you through using the various features.

AMRF Medical Sciences Learning Centre - Whakaaro Pai

The AMRF Medical Sciences Learning Centre is a purpose-built and architecturally-designed facility for undergraduate, graduate and postgraduate education in anatomy, radiology and pathology.

The Centre combines the Medical School’s anatomy and pathology museums and contains a wide range of anatomical models and specimens covering all body systems, over 1,100 pathology specimens, and an extensive on-line radiology and pathology image database.

Student Advice Hub

We’re here to help!

Unfortunately, life and studies sometimes don’t run as smoothly as you hope. The Student Advice Hub is where you can access AUSA’s advocacy, welfare and representation services when things go wrong. We offer free and confidential support to all students, and are independent from the University. Our staff can help you with:

• Academic complaints and study problems
• Debt or funding issues
• Housing and tenancy queries
• Employment issues and much more!

Visit us at the Student Advice Hub in Old Choral Hall rooms G15 or G60. You can also contact us or make an appointment at:

Email: cityhub@ausa.org.nz
Phone: 09 923 7399 or ext: 87294

Student Services Online

Student Services Online is the University’s academic management system, which students access online.

Student Services Online allows you to apply for admission to the University, enrol in classes, update your details and much more.

Website: www.studentservices.auckland.ac.nz

Phone: 0800 63 63 63
Email: studentinfo@auckland.ac.nz

Use Student Services Online to:

• Find out about courses available.
• View your programme requirements.
• Enrol in and delete courses.
• Keep contact details updated.
• View your academic records.
• Apply for graduation.
• Change your programme.

Student Services Online has video tutorials and an online Help function, to guide you through using the various features.

AMRF Medical Sciences Learning Centre - Whakaaro Pai

The AMRF Medical Sciences Learning Centre is a purpose-built and architecturally-designed facility for undergraduate, graduate and postgraduate education in anatomy, radiology and pathology.

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Support for postgraduate study

Orientation to study for new Medical Imaging students

Each semester the Medical Imaging team in conjunction with the Libraries and Learning Services runs an on-campus orientation workshop for new students. All students who are new to study at The University of Auckland are strongly advised to attend. There is no charge associated with the orientation day.

The Medical Imaging Team sessions include:
- Logistics for getting started
- Online learning tools
- Clinical competency requirements
- Electronic Clinical Portfolios

The Student Learning Services sessions include topics such as:
- Managing your postgraduate studies
- Achieving your academic potential
- Understanding expectations for postgraduate writing
- Reviewing the literature
- Academic integrity

The Library sessions include:
- Accessing library resources
- Using the library catalogue
- Finding electronic articles
- Searching databases to find information for your assignments
- Referencing

2-day Medical Imaging orientation workshops will be held for new students in the first week of each semester.
- Semester 1, 2018: Monday 26 February and Tuesday 27 February
- Semester 2, 2018: Monday 16 July and Tuesday 17 July

Academic integrity course

As a student of the University of Auckland, you are a member of a distinguished academic community. The University is committed to providing all the support you need to understand what working to a high level of academic integrity means for you. University-level work requires that you acknowledge all sources according to the referencing requirements of your subject.

The University of Auckland offers an Academic Integrity course to help you understand the high level of academic integrity expected of you. All students new to the University are required to complete the course.

For more information, www.auckland.ac.nz/academic-integrity

English Language Enrichment (ELE)

ELE provides opportunities for any student enrolled at the University of Auckland to improve their academic English. At ELE on the City Campus you can use English language resources, get advice about your English, and join language learning groups. Visit whenever you like and for as long as you like.

Language Exchange (LEX) enables you to find others who can help you improve your spoken English. If you are leaving Auckland, you can use the exchange to network with others. You can exchange your ELE English learning materials, including vocabulary, grammar and pronunciation tools to help improve your academic English.

You can access these resources anytime, anywhere with your University username and password.

Email: eleهو@auckland.ac.nz
Website: www.library.auckland.ac.nz/ele/

Student Learning Services (SLS) offers academic development workshops relevant to all phases of undergraduate and postgraduate study. Topics include strategies for succeeding at university, writing academic essays, reading and note-taking, critical thinking, developing academic English skills, research techniques and thesis writing. SLS also has a Māori and Pasifika programme, Te Fale Pouāwhina. Find workshop details and book online at www.library.auckland.ac.nz/booking.

The 2018 Medical Imaging student representative is Sophie Peryman. If you have any queries or issues that you would like presented to the Medical Imaging team or Board of Studies on your behalf, please email Sophie.

Email: spg123@aucklanduni.ac.nz

Student Disability Services

The Learning Disabilities Programme provides learning assessments, recommendations for special exam conditions and academic development opportunities to University of Auckland students.

The Learning Disabilities (LD) Programme supports students with specific learning and/or other invisible disabilities such as: dyslexia, dyspraxia, Autism Spectrum Disorder, attention deficit disorders and mental health conditions.

Website: www.auckland.ac.nz/disability-services

Postgraduate Medical Imaging students are represented on the Medical Imaging Postgraduate Board of Studies. Students are encouraged to nominate who they would like to represent them. The 2018 Medical imaging student representative is Sophie Peryman. If you have any queries or issues that you would like presented to the Medical Imaging team or Board of Studies, please email Sophie.

Email: spg123@aucklanduni.ac.nz

Supporting websites

The University home page
Access to a computer is essential for all postgraduate students. So is knowing your way around the University’s website. Take some time to familiarise yourself with it at www.auckland.ac.nz

Quicklinks
To access the University’s Quicklinks, go to the top right-hand corner dropdown list. There you will find the following quick links:
- A to Z directory
- Accommodation
- Canvas (access your course information here)
- Student Services Online (access your personal information here)
- University calendar
- Student email (access your university email account here)
- Password change (to get a new or reset password)

Current students
If you click on Current Students in the left side bar menu you can access most of the generic information you will need.

Our Faculty of Medical and Health Sciences website
www.fmhs.auckland.ac.nz
Clicking on Future Postgraduates on the left side bar menu takes you to information about a range of supporting facilities and services for postgraduate students.

Under Postgraduate study options, you can find details of our programmes and view individual MEDIMAGE and CLINIMAG course pages which have a downloadable Course Outline pdf with details of the course including learning outcomes, assessment overview and required textbooks where applicable.

Quicklinks:
To access the Faculty’s Quicklinks, go to the top right-hand corner dropdown list. There you will find the following quick links:
- Canvas
- Change password
- Student email
- Student Services Online
- Libraries and Learning Services
- University Calendar

The Medical Imaging discipline website
www.auckland.ac.nz/medical-imaging
Go to our website for more information about our programmes, the Medical Imaging team, our vision and mission, and to access our ‘Insight’ newsletter for the Medical Imaging professional community.

Dr Beau Pontré, leading a physics tutorial
When you have successfully completed the requirements for a postgraduate diploma or masters programme, you are invited to apply to graduate online. There are two graduations each year, one in autumn in early May, and one in spring towards the end of September. More information:

www.auckland.ac.nz/graduation

Certificate completion

Students do not attend a graduation ceremony on completion of a postgraduate certificate — the certificate needs to be requested from Student Records, City Campus, by emailing records@auckland.ac.nz with your student ID number and current address.

Graduation
## Important dates

**Closing date for applications 2018***

<table>
<thead>
<tr>
<th>Semester One admission</th>
<th>26 January 2018</th>
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<tbody>
<tr>
<td>Semester Two admission</td>
<td>15 June 2018</td>
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*Late applications will be accepted on a case by case basis*

### Academic Year

<table>
<thead>
<tr>
<th>Semester One - 2018</th>
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<tbody>
<tr>
<td>Semester One begins</td>
<td>Monday 26 February</td>
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<tr>
<td>Medical Imaging Orientation</td>
<td>Monday 26 February and Tuesday 27 February</td>
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<tr>
<td>Mid-semester break/Easter</td>
<td>Friday 30 March - Saturday 14 April</td>
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<tr>
<td>ANZAC Day</td>
<td>Wednesday 25 April</td>
</tr>
<tr>
<td>Graduation</td>
<td>Monday 7 May</td>
</tr>
<tr>
<td>Queen's Birthday</td>
<td>Monday 4 June</td>
</tr>
<tr>
<td>Semester One ends</td>
<td>Monday 25 June</td>
</tr>
<tr>
<td>Inter-semester break</td>
<td>Tuesday 26 June - Saturday 14 July</td>
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</table>

<table>
<thead>
<tr>
<th>Semester Two - 2018</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Semester Two begins</td>
<td>Monday 16 July</td>
</tr>
<tr>
<td>Medical Imaging Orientation</td>
<td>Monday 16 July and Tuesday 17 July</td>
</tr>
<tr>
<td>Mid-semester break</td>
<td>Monday 27 August - Saturday 8 September</td>
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<tr>
<td>Graduation</td>
<td>Tuesday 25 September</td>
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<tr>
<td>Labour Day</td>
<td>Monday 22 October</td>
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<tr>
<td>Semester Two ends</td>
<td>Monday 12 November</td>
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</table>

<table>
<thead>
<tr>
<th>Semester One - 2019</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Semester One begins</td>
<td>Monday 4 March 2019</td>
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