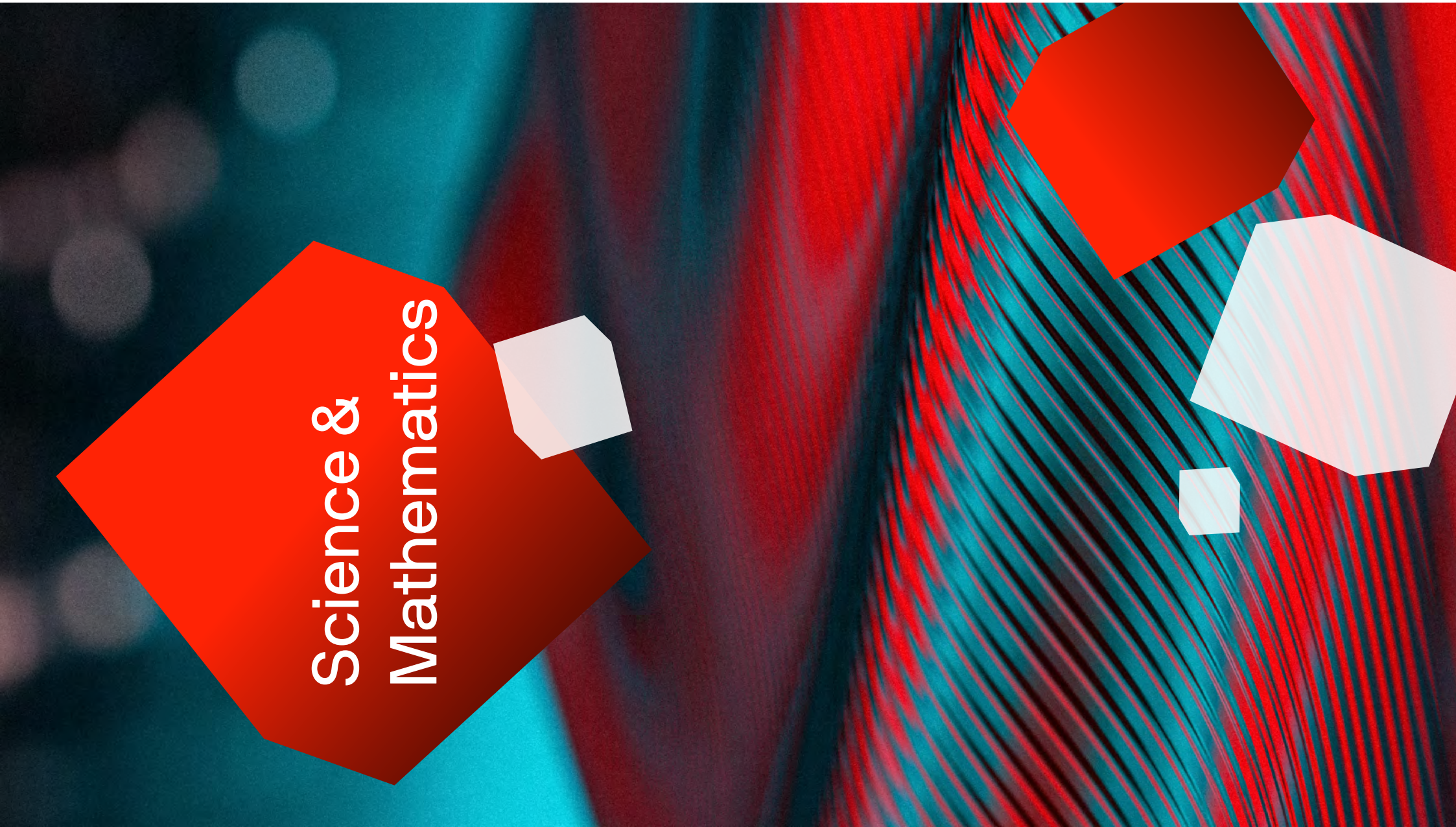
Postgraduate Courses

Faculty of Science



Welcome to the Faculty of Science

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Acknowledgement of Country

UTS acknowledges the Gadigal People of the Eora Nation, the Boorooberongal People of the Dharug Nation, the Bidiagal people and the Gamaygal people upon whose ancestral lands our university stands. We would also like to pay respect to the Elders both past and present, acknowledging them as the traditional custodians of knowledge for these lands.

Postgraduate science programs

MASTER'S COURSEWORK

Course name	Duration	Location	Course code	CRICOS
Master of Data Science in Quantitative Finance	2 years full time 4 years part time	City campus	C04418	107831E
Master of Forensic Science	1.5 years full time 3 years part time	City campus	C04391	098061K
Master of Forensic Science (Extension)	2 years full time 4 years part time	City campus	C04392	098060M
Master of Mathematics and Quantitative Finance	2 years full time 4 years part time	City campus	C04419	107830F
Master of Medical Biotechnology	1.5 years full time 3 years part time	City campus	C04390	098057F
Master of Medical Biotechnology (Extension)	2 years full time 4 years part time	City campus	C04388	098056G
Master of Philosphy in Forensic Science	2 years full time 4 years part time	City campus	C04393	098062J
Master of Philosphy in Medical Biotechnology	2 years full time 4 years part time	City campus	C04389	098055G
Master of Philosphy in Science	2 years full time 4 years part time	City campus	C04267	080272B
Master of Quantitative Finance	1 year full time 3 years part time	City campus	C04373	088930G
Master of Science Choice of major: ● Advanced studies ● Analytical chemical technologies ● Environmental consultancy and conservation ● Biomedical engineering ● Mathematical and statistical modelling ● Medical laboratory science	1.5 years full time 3 years part time	City campus	C04241	071909M
Master of Science (Extension)	2 years full time 4 years part time	City campus	C04265	080273A

GRADUATE DIPLOMAS EXTENDING PREVIOUS AREA OF STUDY

Course name	Duration	Location	Course code	CRICOS
Graduate Diploma in Forensic Science	1 year full time 2 years part time	City campus	C07137	098063G
Graduate Diploma in Medical Biotechnology	1 year full time 2 years part time	City campus	C07136	09805E

GRADUATE DIPLOMAS IN NEW AREA OF STUDY

Course name	Duration	Location	Course code	CRICOS
Graduate Diploma in Medical Laboratory Science	1 year full time 2 years part time	Online	C06143	n/a

GRADUATE CERTIFICATES

Course name	Duration	Location	Course code	CRICOS
Graduate Certificate in Forensic Science	0.5 years full time 1 year part time	City campus	C11287	098064G
Graduate Certificate in Mathematics	0.5 years full time 1 year part time	City campus	C11210	065345D
Graduate Certificate in Medical Biotechnology	0.5 years full time 1 year part time	City campus	C11285	098059D
Graduate Certificate in Medical Laboratory Science	0.5 years full time 1 year part time	Online	C11342	n/a
Graduate Certificate in Science	0.5 years full time 1 year part time	City campus	C11216	071910G

Graduate Certificate in Science

The Graduate Certificate in Science is a four-subject qualification that draws on the world-class curriculum of the UTS Master of Science. Students choose two electives in their preferred scientific discipline and complete two professional subjects designed to prepare them for professional scientific practice.

Is this course right for me?

This qualification has been designed for students taking the first steps into postgraduate science, those looking for a rigorous professional development opportunity in an existing scientific career, or those seeking an alternative entry pathway into the master's degree.

Admission requirements

- Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrate potential to pursue graduate studies.
- Entry into this course requires a minimum of a Bachelor's degree in a science-related discipline.
- There are also English proficiency requirements for international students or local applicants with international qualifications.

Articulation with UTS courses

Upon completion of the Graduate Certificate in Science, students gain full recognition of prior learning to the Master of Science for any subjects relevant to the specific master's specialisation in which they enrol.

Key information

Duration	0.5 years full time 1 years part time
Location	City campus
Credit points	24
Course code	C11216

Course structure

handbook.uts.edu.au/courses/c11216

CRICOS 071910G

Find out more

Master of Science

The world-class UTS Master of Science is an advanced science degree designed to propel students into senior roles in their chosen scientific discipline. Supported by teaching excellence, industry collaboration and access to cutting-edge facilities and technologies, students gain the theoretical, practical and professional expertise to deliver meaningful impact in the global science sector.

Six major options

- Advanced studies
- Analytical chemical technologies
- Biomedical engineering
- Environmental consultancy and conservation
- Mathematical and statistical data science
- Medical laboratory science

Admission requirements

- Applicants must have completed a UTS recognised bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrate potential to pursue graduate studies.
- Entry into any of the majors requires a minimum of a Bachelor's degree in a related discipline.
- There are also English proficiency requirements for international students or local applicants with international qualifications.

Recognition of prior learning

Students enrolled in this course may be eligible for recognition of prior learning of up to 24 credit points if the subjects previously studied are deemed by UTS Science to be equivalent to those specified for their course. To be considered for recognition of prior learning, subjects must normally have been completed no more than five years prior to the commencement of this course.

Master of Philosophy in Science

Interested in research? Students who achieve a credit average in their first year of study can apply to transfer into the **Master of Philosophy in Science**. This highly specialised degree combines coursework subjects with an immersive research project, providing a pathway to a PhD.

Course duration 2 years

Course code C04267

Location City campus

Master of Science (Extension)

Students with an interest in the Master of Science should also consider the **Master of Science (Extension)**, a two-year program of full-time study that includes an additional 24 credit points on top of the standard Master of Science curriculum.

Course duration 2 years full time

4 years part time

Course code C04265

Location City campus

Key information

Duration 1.5 years full time
3 years part time

Location City campus

Credit points 72

Course code C11342

Course structure

handbook.uts.edu.au/courses/c11342

CRICOS 071909M

Find out more

Master of Science major

Advanced studies

Gain a broad range of skills and knowledge in your chosen scientific discipline supported by teaching excellence, industry collaboration and access to cutting-edge facilities and technologies.

Course name	Course duration	Location
Master of Science (Advanced studies)	1.5 years full time 3 years part time	City campus
Master of Science (Advanced studies) (Extension)	2 years full time 4 years part time	

Advanced studies

This major connects students with a diversity of advanced learning opportunities that span the breadth of scientific enquiry, including mathematics, chemistry and environmental science, among others. Whether they're seeking broad knowledge across multiple science disciplines or they want to tailor their studies to meet a specific career goal, this major delivers an expanded science education that prepares students to progress their careers.

Course completion requirements

Requirement	Credit points
STM91294 Professional stream (Science PG)	24
MAJ01177 Advanced studies	48
Total	72

CRICOS 071909M

Careers

Graduates are equipped for advanced practice in their chosen scientific discipline. They can work in laboratory and scientific practice, digital and data analytics, research and development or other science and technology pathways.

Master of Science (Extension)

Students with an interest in the Master of Science should also consider the Master of Science (Extension), a two-year program of full-time study that includes an additional 24 credit points on top of the standard Master of Science curriculum.

Master of Philosphy in Science

High-performing Master of Science students with an interest in research can transfer into the Master of Philosophy in Science, which provides a pathway to a PhD.

Meet the program director

Professor Willa Huston
Associate Dean (Teaching and Learning)
profiles.uts.edu.au/Wilhelmina.Huston

Contact us

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ask.uts.edu.au

Find out more

Master of Science major

Analytical chemical technologies

Apply analytical chemistry techniques to pressing environmental, forensic and medical challenges and get ready to merge theory with hands-on practice and instrumentation.

Course name	Course duration	Location
Master of Science (Analytical chemical technologies)	1.5 years full time 3 years part time	City campus
Master of Science (Analytical chemical technologies) (Extension)	2 years full time 4 years part time	

Analytical chemical technologies

Designed in response to industry demand, this major equips students with in-depth theoretical and practical knowledge of industry-standard analytical instrumentation, as well as an understanding of how to develop and validate their methods in line with international accreditation standards. They can upskill in analytical techniques and their application in diverse fields such as environmental, forensic and medical sciences, among others.

Course completion requirements

Requirement	Credit points
STM91294 Professional stream (Science PG)	24
MAJ01181 Analytical chemical technologies	48
Total	72

CRICOS 071909M

Careers

Graduates emerge with advanced skills in analytical instrumentation, method development and validation for quantitative analysis, ready for senior roles in a vast range of sectors and roles in which analytical chemistry expertise is highly valued. These include environmental testing, food and agriculture, the resource sector, forensic drug analysis and clinical diagnostics.

Master of Science (Extension)

Students with an interest in the Master of Science should also consider the **Master of Science (Extension)**, a two-year program of full-time study that includes an additional 24 credit points on top of the standard Master of Science curriculum.

Master of Philosphy in Science

High-performing Master of Science students with an interest in research can transfer into the **Master of Philosophy in Science**, which provides a pathway to a PhD.

Meet the program director

Dr David Bishop
Senior Lecturer
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Find out more

Master of Science major

Biomedical engineering

Gain a broad range of skills and knowledge in your chosen scientific discipline supported by teaching excellence, industry collaboration and access to cutting-edge facilities and technologies.

Course name	Course duration	Location
Master of Science (Biomedical engineering)	1.5 years full time 3 years part time	City campus
Master of Science (Biomedical engineering) (Extension)	2 years full time 4 years part time	

Biomedical engineering

This major arms students with a combination of scientific, research and business skills that will prepare them to innovate in a range of biomedical environments. Curriculum spans advanced scientific concepts, including biomedical instrumentation, nanotechnology, synthetic biology and medical device design and development. Beyond scientific skills development, students also engage with industry-integrated learning, pursue real-world research opportunities.

Course completion requirements

Requirement	Credit points
STM91294 Professional stream (Science PG)	24
MAJ03470 Biomedical engineering	48
Total	72

CRICOS 071909M

Careers

Graduates are prepared for scientific leadership roles in academic research, technological industries and even policymaking. They can launch their own innovative start-ups or take on key roles in established medical device or medical technology companies, industry R&D, hospitals, research organisations, and government and regulatory agencies.

Master of Science (Extension)

Students with an interest in the Master of Science should also consider the **Master of Science (Extension)**, a two-year program of full-time study that includes an additional 24 credit points on top of the standard Master of Science curriculum.

Master of Philosphy in Science

High-performing Master of Science students with an interest in research can transfer into the **Master of Philosophy in Science**, which provides a pathway to a PhD.

Meet the program director

Dr Andrew Care
Chancellor's Postdoctoral Research Fellow
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Find out more

Master of Science major

Environmental consultancy and conservation

The future is in your hands. Become an environmental expert with advanced skills in ecology, species conservation, site assessment and natural resource management.

Course name	Course duration	Location
Master of Science (Environmental Consultancy and Conservation)	1.5 years full time 3 years part time	City campus
Master of Science (Environmental Consultancy and Conservation) (Extension)	2 years full time 4 years part time	

Environmental consultancy and conservation

This major is a launchpad into leadership for professionals in the environmental sector. This program is designed to support and upskill students from diverse pathways, from established environmental professionals to passionate newcomers looking to develop the skills and expertise needed to make a difference in Australian and global environments.

Careers

Graduates can pursue careers or explore opportunities in education and public outreach, planning and policy development, environmental research, or hands-on scientific practice. They work for government agencies, including local councils, environmental protection authorities, national parks, land, water and wildlife services, CSIRO and other prestigious research institutes, Australian tourism centres, natural resource industries, and other organisations.

CRICOS 071909M

Course completion requirements

Requirement	Credit points
STM91294 Professional stream (Science PG)	24
MAJ05004 Environmental Consultancy and Conservation	48
Total	72

Master of Science (Extension)

Students with an interest in the Master of Science should also consider the **Master of Science (Extension)**, a two-year program of full-time study that includes an additional 24 credit points on top of the standard Master of Science curriculum.

Master of Philosphy in Science

High-performing Master of Science students with an interest in research can transfer into the **Master of Philosophy in Science**, which provides a pathway to a PhD.

Meet the program director

Dr Megan Murray
Associal Head of School, School of Life Sciences
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Forensic science

Harness the power of science as a tool to uphold the law. A degree in forensic science allows you to explore the tools of your trade and build specialist knowledge that will set you apart in this rapidly evolving field.

Course name	Course duration	Location
Graduate Certificate in Forensic Science	0.5 years full time 1 year part time	City campus
Graduate Diploma in Forensic Science	1 year full time 2 years part time	
Master of Forensic Science	1.5 years full time 3 years part time	
Master of Forensic Science (Extension)	2 years full time 4 years part time	

Admission requirements

All postgraduate forensic science courses require the completion of a bachelor's, master's, graduate diploma, graduate certificate in chemical sciences, biochemistry and cell biology, human biology, forensic science or medical science. Other admission requirements, including English language proficiency requirements, may apply.

Careers

Graduates may pursue employment with organisations such as:

- The Australian Federal Police and state policing agencies
- ASIO, CSIRO, and ANSTO
- Australian customs and immigration
- Private forensic agencies

Depending on your specialisation and elective subject choices, other career options include:

- Criminalist
- Chemical criminalist
- Forensic toxicologist
- DNA specialist
- Scene-of-crime officer
- Fire investigator
- Fingerprint analyst

Meet the program director

Dr Xanthe Spindler
Senior Lecturer
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Graduate Certificate in Forensic Science

The **Graduate Certificate in Forensic Science** is suitable for those seeking a scientific qualification to assist them to gain entry into further forensic science studies, as well as for those who are already employed in a scientific field but wish to gain new specialised skills to advance their area of expertise.

Course aims

The course enhances career prospects by providing opportunities to extend knowledge beyond a first degree. It provides the opportunity to extend or renew scientific knowledge and professional skills that are important to career advancement.

Articulation with UTS courses

Students who have completed the Graduate Certificate in Forensic Science can transfer into Graduate Diploma in Forensic Science, Master of Forensic Science, or Master of Forensic Science (Extension) and receive full recognition of prior learning for the course.

Course completion requirements

Requirement	Credit points
STM91291 Core subjects (Forensic Science)	16
CBK91766 Professional elective(s)	8
Total	24

Graduate Certificate in Forensic Science

Duration 0.5 years full time
1 year part time

Location City campus

Credit points 24

Course code C11287

Course structure
handbook.uts.edu.au/courses/c11287

CRICOS 09064G

Graduate Diploma in Forensic Science

The **Graduate Diploma in Forensic Science** prepares students for professional and specialist work in the discipline of forensic science and is designed for professional scientists wishing to update their industry-related skills for career advancement.

Course aims

The course aims to produce adaptable forensic scientists who are proficient with modern professional practice and technology and have strong general professional skills such as scientific communication, critical analysis, and project management.

Articulation with UTS courses

Students who have completed the Graduate Diploma in Forensic Science can transfer into the Master of Forensic Science, or Master of Forensic Science (Extension) and receive recognition of prior learning for the course.

Course completion requirements

Requirement	Credit points
STM91293 Core subjects (Forensic Science)	32
STM91285 Professional stream (Science PG)	16
Total	48

Graduate Diploma in Forensic Science

Duration 1 year full time
2 years part time

Location City campus

Credit points 48

Course code C07137

Course structure
handbook.uts.edu.au/courses/c07137

CRICOS 09063G

Master of Forensic Science

The **Master of Forensic Science** is one of Australia's leading qualifications in this niche scientific discipline, combining hands-on advanced forensic science practice with high-level professional and research skills acquisition. Our research-informed curriculum is focused on highly practical activities that take place in world-class facilities designed to replicate real forensic science environments.

Course aims

As a master's degree, this course is focused on developing students for leadership roles in forensic science. Curriculum is informed by leading academics and practitioners in the internationally acclaimed UTS Centre for Forensic Science, as well as by real-world organisations. As such, course content reflects the needs and priorities of the global forensic science profession.

Articulation with UTS courses

Students who complete this course can transfer into the Master of Forensic Science (Extension) and receive recognition of prior learning for the completed course.

Course completion requirements

Requirement	Credit points
STM91294 Core subjects (Forensic Science)	48
STM91284 Professional stream (Science PG)	24
Total	72

Other courses

Master of Forensic Science (Extension)

Students with an interest in the Master of Forensic Science should also consider the **Master of Forensic Science (Extension),** a two-year program of full-time study that includes an additional 24 credit points on top of the standard Master of Forensic Science curriculum.

Master of Philosphy in Forensic Science

High-performing Master of Forensic Science students with an interest in research can transfer into the **Master of Philosophy in Forensic Science**, which provides a pathway to a PhD. Admission is via internal course transfer with faculty approval.

Master of Forensic Science

Duration 1.5 years full time
3 years part time

Location City campus

Credit points 72

Course code C04391

Course structure

handbook.uts.edu.au/courses/c04391

CRICOS 098064K

Master of Forensic Science (Extension)

Duration 2 years full time
4 years part time

Location City campus

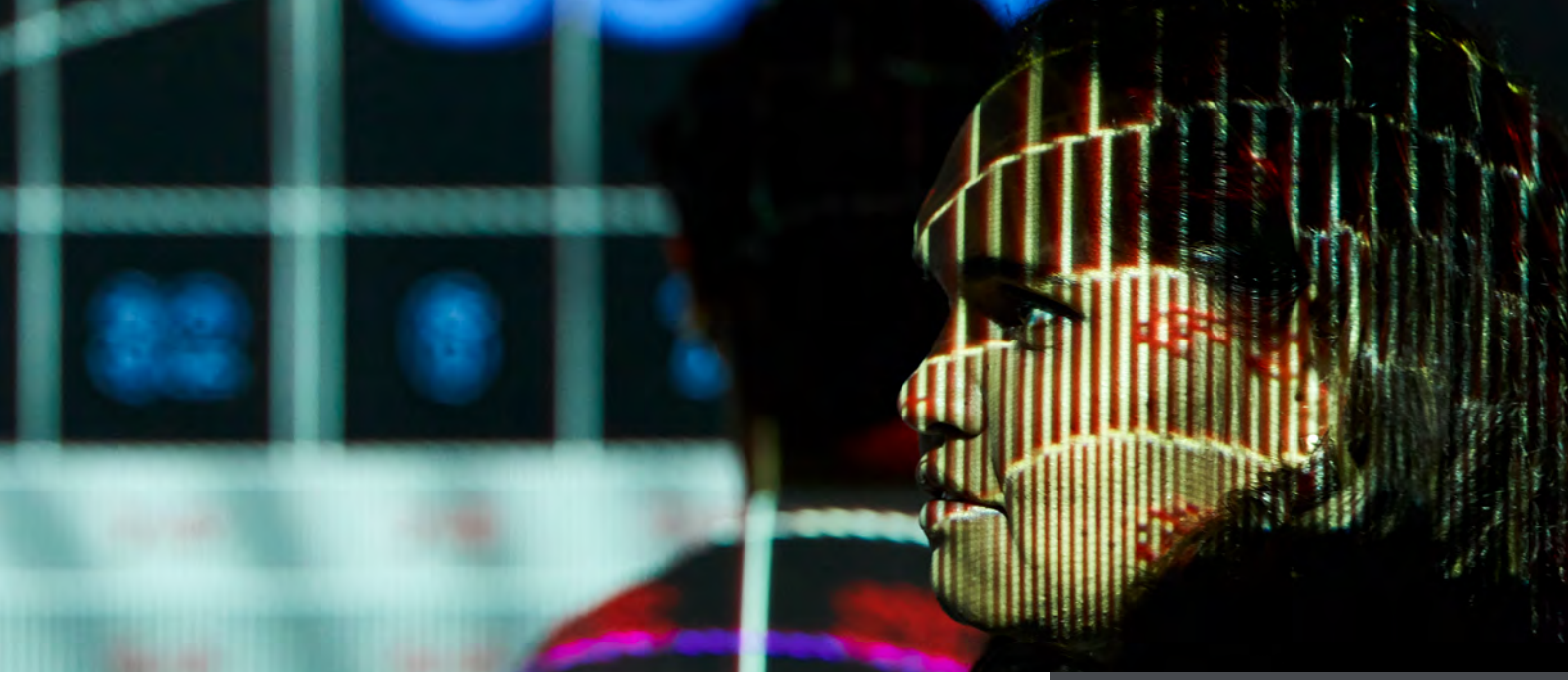
Credit points 96

Course code C04392

Course structure

handbook.uts.edu.au/courses/c04392

CRICOS 098060M



Mathematics

Capitalise on industry demand. Learn to use advanced numerical and data skills to solve complex challenges for business, government and the community.

Course name	Course duration	Location
Graduate Certificate in Mathematics	0.5 years full time 1 year part time	City campus
Master of Science (Mathematical and statistical data science)	1.5 years full time 3 years part time	
Master of Science (Mathematical and statistical data science) (Extension)	2 years full time 4 years part time	

Admission requirements

- A bachelor's degree in a related discipline, or an equivalent or higher qualification or evidence of general and professional qualifications that demonstrate potential to pursue graduate studies.
- English proficiency requirements for international students or local applicants with international qualifications.

Other courses

Students interested in mathematics degrees may also be interested in postgraduate quantitative finance courses:

- Master of Quantitative Finance
- Master of Data Science in Quantitative Finance
- Master of Mathematics and Quantitative Finance

Meet the program director

Dr Joanna Wang
Senior Lecturer
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Find out more

Graduate Certificate in Mathematics

The **Graduate Certificate in Mathematics** is a four-subject course. The flexible course structure allows for study programs designed to suit different university graduates who require a mathematical foundation for further studies.

Course aims

The course aims to provide university graduates with access to training and retraining in mathematics and statistics with the aim to allow students to focus on particular mathematical topics rather than on broader areas of mathematics.

Is this course right for me?

The course is recommended for those with insufficient mathematics in their bachelor's degree who wish to meet the admission requirements of the Mathematical and Statistical Modelling major in the Master of Science or the Master of Mathematics and Quantitative Finance.

Transfer between UTS courses

Students who complete Graduate Certificate in Mathematics can transfer into the Master of Mathematics and Quantitative Finance and receive full credit recognition for the subjects already completed.

Course completion requirements

Requirement	Credit points
680109 Advanced Communication Skills in Science	6
60117 Understanding Data and Statistical Design	6
68106 Calculus 1	6
68105 Alegbra	6
Total	24

Graduate Certificate in Mathematics

Duration 0.5 years full time
1 year part time

Location City campus

Credit points 24

Course code C11210

Course structure

handbook.uts.edu.au/courses/c11210

CRICOS 065345D

Master of Science

Mathematics and statistical modelling major

Grounded in the mathematical and statistical underpinnings of data science, this industry-focused major prepares students to apply their expertise in a range of real-world contexts. Curriculum combines theoretical (algebra, analysis) and applied (optimisation, econometrics) mathematics with the study of contemporary data science topics (Bayesian methods, machine learning). Students learn from leading mathematicians and statisticians whose research shapes the profession and emerge ready to capitalise on industry demand for qualified data professionals.

Careers

Statisticians, data scientists and data analysts are increasingly in demand in any organisation seeking expertise to collect, manage, interrogate and extract meaning from their data. Graduates of this major can pursue senior data roles in banks, insurance companies, tech companies, health care organisations and government agencies, including in the health, justice and community settings, among others.

Course completion requirements

Requirement	Credit points
STM91284 Professional Stream (Science PG)	24
MAJ01124 Mathematical and Statistical Modelling	48
Total	72

Other courses

Master of Science (Extension)

Students with an interest in the Master of Science should also consider the **Master of Science (Extension)** a two-year program of full-time study that includes an additional 24 credit points on top of the standard Master of Science curriculum.

Master of Philosphy in Science

High-performing Master of Science Extension students with an interest in research can transfer into the **Master of Philosophy in Science**, which provides a pathway to a PhD.

Master of Science (Mathematical and Statistical Modelling)

Duration	1.5 years full time 3 years part time
Location	City campus
Credit points	72
Course code	C04241

Course structure

handbook.uts.edu.au/courses/c04241

CRICOS 071909M

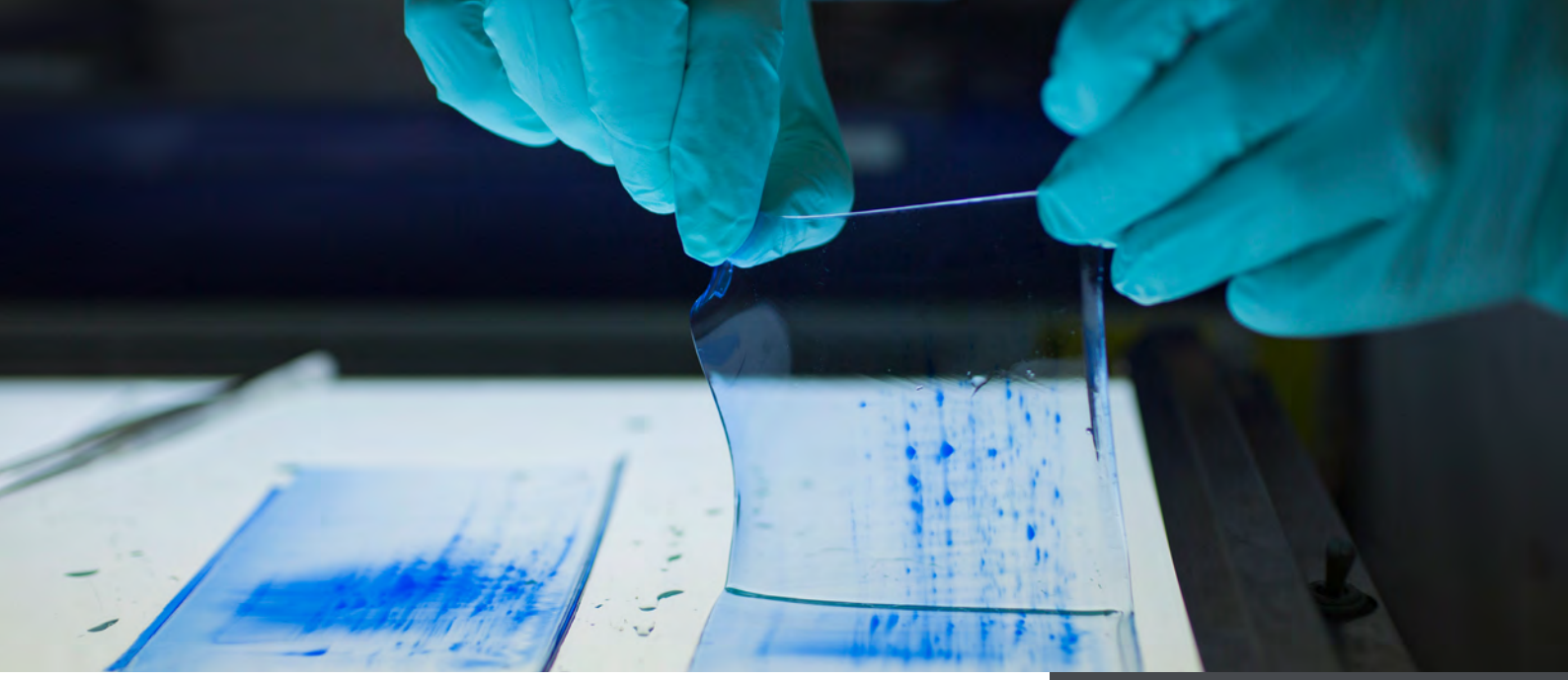
Master of Science (Mathematical and Statistical Modelling) (Extension)

Duration	2 years full time 4 years part time
Location	City campus
Credit points	96
Course code	C04265

Course structure

handbook.uts.edu.au/courses/c04265

CRICOS 080273A



Medical biotechnology

Technology will be the driver of future medical breakthroughs. Study where medical innovation happens at the intersection of science, technology and engineering.

Course name	Course duration	Location
Graduate Certificate in Medical Biotechnology	0.5 years full time 1 year part time	City campus
Graduate Diploma in Medical Biotechnology	1 year full time 2 years part time	
Master of Medical Biotechnology	1.5 years full time 3 years part time	
Master of Medical Biotechnology (Extension)	2 years full time 4 years part time	

Admission requirements

All medical biotechnology courses require the completion of a bachelor's, master's, graduate diploma or graduate certificate in biochemistry and cell biology, microbiology, human biology, genetics, laboratory technology, medical science, food science and biotechnology or pharmacology. Other admission requirements, including english language proficiency requirements, may apply.

Articulation with UTS courses

Graducate Certificate in Medical Biotechnology: After completing this course students may transfer into the Graduate Diploma in Medical Biotechnology, the Master of Medical Biotechnology or the Master of Medical Biotechnology (Extension) and receive full recognition of prior learning.

Graducate Diploma in Medical Biotechnology: After completing this course students may transfer into the Master of Medical Biotechnology or the Master of Medical Biotechnology (Extension) and receive full recognition of prior learning.

Master of Medical Biotechnology: After completing this course students may transfer into the Master of Medical Biotechnology (Extension) and receive full recognition of prior learning.

Meet the program director

Dr Matt Padula
Senior Lecturer
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Contact us

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ask.uts.edu.au

Find out more

Graduate Certificate in Medical Biotechnology

Course aims

The course enhances career prospects by providing opportunities to extend knowledge beyond a first degree. It provides the opportunity to extend or renew scientific knowledge and professional skills which are important to career advancement.

Is this course right for me?

The **Graduate Certificate in Medical Biotechnology** is suitable for those seeking a scientific qualification to assist them to gain entry into science as well as for those who are already employed but wish to gain new specialised skills to advance their area of expertise.

Course completion requirements

Requirement	Credit points
CBK91765 Discipline electives (Science PG)	16
CBK91766 Professional elective(s) (Science PG)	8
Total	24

Careers

This course provides a backbone of skills important to a professional scientist; be they engaged in research, science business, industries or government organisations.

Graduate Diploma in Medical Biotechnology

Course aims

The course aims to produce graduates with communication skills, critical analysis, project management and innovation and commercialisation capabilities as they are important in the real world. The professional strand is complemented by medical biotechnology study.

Is this course right for me?

The **Graduate Diploma in Medical Biotechnology** is designed for two distinct groups of students, namely the professional scientists wishing to update their industry-related skills for career advancement and students considering a research degree.

Course completion requirements

Requirement	Credit points
STM91283 Core subjects (Science PG)	32
STM91285 Professional stream (Science PG)	16
Total	48

Careers

The course provides a backbone of skills important to a professional scientist; be they engaged in research, science business, industries or government organisations. Graduates can pursue careers with private and public agencies, such as medical and health sustainability.

Graduate Certificate in Medical Biotechnology

Duration 0.5 years full time
1 year part time

Location City campus

Credit points 24

Course code C11285

Course structure

handbook.uts.edu.au/courses/c11285

CRICOS 098059D

Graduate Diploma in Medical Biotechnology

Duration 1 year full time
2 years part time

Location City campus

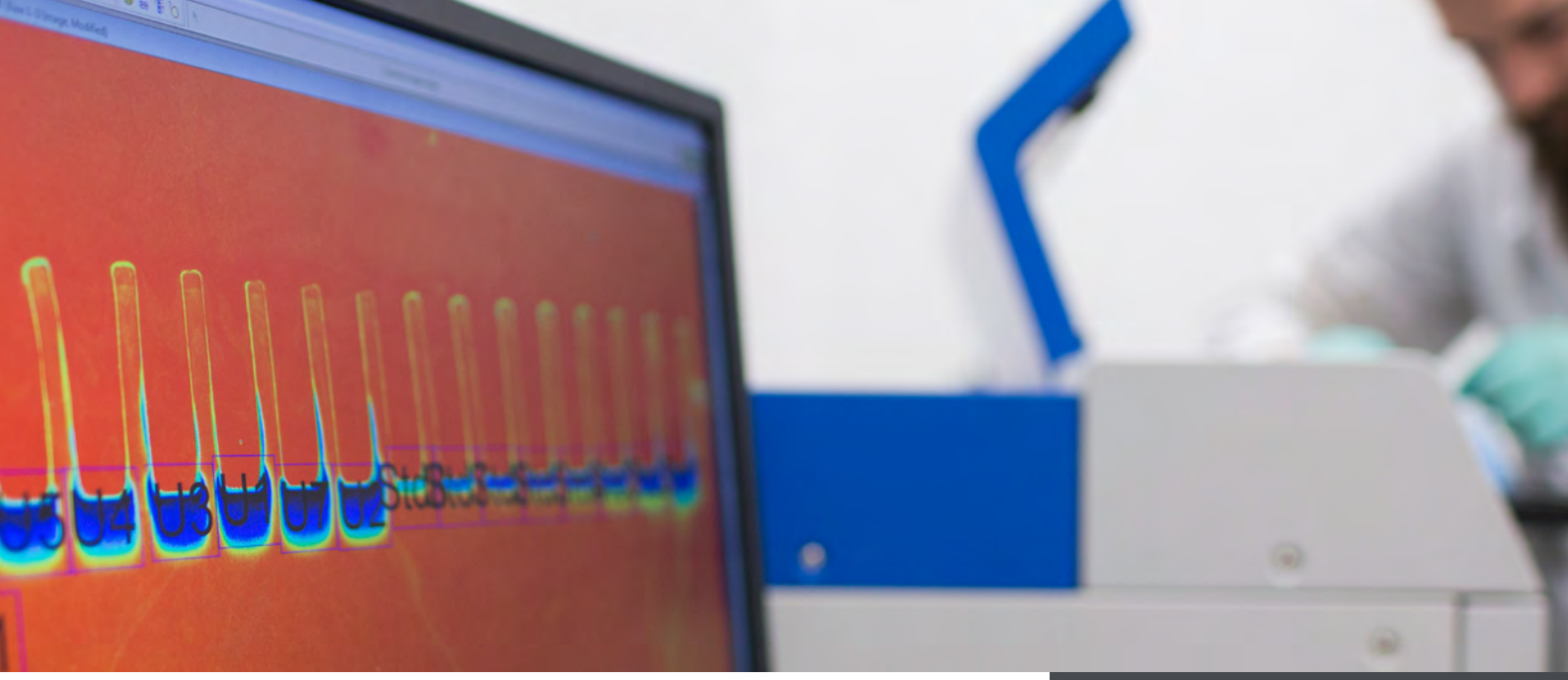
Credit points 48

Course code C07136

Course structure

handbook.uts.edu.au/courses/c07136

CRICOS 098058E



Master of Medical Biotechnology

The **Master of Medical Biotechnology** draws on the professional methodologies used in the university's world-class microscopy, mass spectrometry, proteomics and biomolecular analysis facilities. It combines theoretical learning and extensive hands-on practice.

Course features

Biotechnology subjects: Students build high-level skills with a series of core subjects that underpin the contemporary biotechnology field. From advanced subjects in microscopy, proteomics and bionanotechnology to the evidence and design of clinical trials and the use of biotechnology to deliver solutions to infectious diseases, students gain advanced discipline expertise that prepares them for senior roles in the field.

Professional subjects: Students complete two core subjects common to many UTS postgraduate science degrees. They can then customise their remaining professional stream credit points with choices in business models and intellectual property, project management principles, risk assessment and management, and more.

Elective subjects: Extensive elective choices give students the opportunity to tailor their studies to meet their professional goals.

Careers

Graduates emerge ready for senior careers in lab-based research or in data analysis for health care policy or clinical trials. They are highly sought after by the medical biotech industry, as well as by organisations seeking a combination of advanced science and management expertise. They can work in medical device and biotechnology companies, government policy and regulation roles, and in research organisations.

Course completion requirements

Requirement	Credit points
STM91293 Core subjects (Science Science)	32
STM91284 Professional stream (Science PG)	24
CBK91763 Electives (Science PG)	16
Total	72

Other courses

Master of Forensic Science (Extension)

Students with an interest in the Master of Medical Biotechnology should also consider the **Master of Medical Biotechnology (Extension)** a two-year program of full-time study that includes an additional 24 credit points on top of the standard Master of Medical Biotechnology curriculum.

Master of Philosphy in Medical Biotechnology

Students who complete 48 credit points of biotechnology study, including core biotechnology and professional subjects, can transfer into the **Master of Philosophy in Medical Biotechnology**, which provides a pathway to a PhD.

Master of Medical Biotechnology

Duration 1.5 years full time
3 years part time

Location City campus

Credit points 72

Course code C04390

Course structure

handbook.uts.edu.au/courses/c04390

CRICOS 098057F

Master of Medical Biotechnology (Extension)

Duration 2 years full time
4 years part time

Location City campus

Credit points 96

Course code C04388

Course structure

handbook.uts.edu.au/courses/c04388

CRICOS 098056G

Medical laboratory science

Level up your diagnostic pathology knowledge with specialist study designed for the private and public hospital and diagnostic laboratory sector.

Course name	Course duration	Location
Graduate Certificate in Medical Laboratory Science	0.5 years full time 1 year part time	Online*
Graduate Diploma in Medical Laboratory Science	1 year full time 2 years part time	
Master of Science (Medical Laboratory Science)	1.5 years full time 3 years part time	City campus
Master of Science (Medical Laboratory Science) (Extension)	2 years full time 4 years part time	

*with an option to undertake elective(s) unit(s) on City Campus.

Admission requirements

Graduate Certificate and Graduate Diploma in Medical Laboratory Science: Admission to these courses require students to meet at least one of the following requirements:

- Completed Diploma of Laboratory Technology (Pathology) and minimum three years' full time, or equivalent part-time, related work experience completed post-study; or
- Completed Bachelors degree, or an equivalent or higher qualification or submitted other evidence of general and professional qualifications that demonstrate potential to pursue graduate studies.

Master of Science (Medical Laboratory Science): Admission to any of the majors requires a minimum of a Bachelors degree in a related scientific discipline. Students who have completed the UTS Diploma in Medical Laboratory Science may also be eligible for admission.

Other admission requirements, including english language proficiency requirements, may apply.

Meet the program director

A/Prof Catherine Gorrie
Associate Professor
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Contact us

Tel: 1300 ASK UTS (1300 275 887)

ask.uts.edu.au

Find out more

Graduate Certificate & Graduate Diploma in Medical Laboratory Science

The **Graduate Certificate & Graduate Diploma in Medical Laboratory Science** courses encompass a broad range of biomedical science disciplines and is designed to open new career prospects for science graduates in medical diagnostic laboratories and to enhance the disciplinary knowledge of established medical laboratory scientists.

Careers

Career options include positions in hospital laboratories, diagnostic medical laboratories, pharmaceutical companies, biomedical and biotechnology industries, biomedical science information dissemination and education.

Articulation with UTS courses

Upon completion of the Graduate Certificate in Medical Laboratory Science, students gain full recognition of prior learning to the Graduate Diploma in Medical Laboratory Science.

Course completion requirements

Graduate Certificate in Medical Laboratory Science

Requirement	Credit points
69505 Medical Microbiology	6
69504 Diagnostic Pathology	6
69506 Biomolecular Science	6
CBK92024 Electives (Medical Laboratory Science)	6
Total	24

Graduate Diploma in Medical Laboratory Science

Requirement	Credit points
69505 Medical Microbiology	6
69504 Diagnostic Pathology	6
69506 Biomolecular Science	6
CBK92024 Electives (Medical Laboratory Science)	6
CBK92025 Medical Laboratory Science	24
Total	48

*The Graduate Certificate & Graduate Diploma in Medical Laboratory Science are not offered to international students.

Graduate Certificate in Medical Laboratory Science

Duration 0.5 years full time
1 year part time

Location City campus

Credit points 24

Course code C11342

Course structure
handbook.uts.edu.au/courses/c11342

Graduate Diploma in Medical Laboratory Science

Duration 1 year full time
2 years part time

Location City campus

Credit points 48

Course code C06143

Course structure
handbook.uts.edu.au/courses/c06143

Master of Science

Medical laboratory science major

This specialist major is focused on diagnostic pathology and the theory that underpins diagnostic processes and tests. It's designed for practitioners who are already working in hospital and commercial laboratory settings, as well as up-and-coming pathology professionals and graduates from other science disciplines with an interest in the rapidly expanding pathology sector. Students gain the high-level disciplinary and communication skills expected in senior positions, along with professional and research capabilities.

Careers

The medical laboratory science major can open the door to new opportunities in diagnostic pathology, including the potential to progress to senior roles. It also prepares graduates to apply their skills in to research and development, science communication, health care policy or hospital administration.

Course completion requirements

Requirement	Credit points
STM91294 Professional stream (Science PG)	24
MAJ06254 Medical Laboratory Science	48
Total	72

Other courses

Master of Science (Extension)

Students with an interest in the Master of Science should also consider the **Master of Science (Extension)** a two-year program of full-time study that includes an additional 24 credit points on top of the standard Master of Science curriculum.

Master of Philosphy in Science

High-performing Master of Science Extension students with an interest in research can transfer into the **Master of Philosophy in Science**, which provides a pathway to a PhD.

Master of Science (Medical Laboratory Science)

Duration 1.5 years full time
3 years part time

Location City campus

Credit points 72

Course code C04241

Course structure

handbook.uts.edu.au/courses/c04241

CRICOS 071909M

Master of Science (Medical Laboratory Science) (Extension)

Duration 2 years full time
4 years part time

Location City campus

Credit points 96

Course code C04265

Course structure

handbook.uts.edu.au/courses/c04265

CRICOS 080273A

Quantitative finance

Gain the quantitative knowledge and skills to measure and manage risk in today's complex financial markets.

Course name	Course duration	Location
Master of Quantitative Finance	1.5 years full time* 3 years part time	City campus
Master of Data Science in Quantitative Finance	2 years full time 4 years part time	
Master of Mathematics and Quantitative Finance	2 years full time 4 years part time	

*This course can be completed during one academic year over three sessions including the Summer session.

Admission requirements

Students seeking admission to the Master of Quantitative Finance or Master of Data Science in Quantitative Finance must show evidence of previous academic qualification with strong quantitative background. Other admission requirements, including English proficiency requirements, may apply.

Why study quantitative finance at UTS?

Major regulatory changes and the emergence of new types of financial risks mean that skilled quantitative finance professionals are more in demand than ever. The UTS postgraduate Quantitative Finance program is recognised in Australia and overseas as a leading qualification for aspiring and established quantitative finance professionals.

Careers

Graduates are highly sought after by leading financial institutions, management consulting companies, energy and mining companies, regulatory bodies, government organisations and other organisations seeking advanced quantitative expertise. They can work as quantitative analysts, risk management analysts, quantitative structurers, quantitative developers, forecasters, traders, investment analysts and financial engineers in organisations of all sizes.

Contact us
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ask.uts.edu.au

Find out more

Master of Quantitative Finance

Course content

Course content is comprised of nine subjects that have been specifically designed for this degree and that are frequently updated to keep pace with industry need.

Is this course right for me?

The Master of Quantitative Finance is designed for aspiring and established quantitative finance professionals. Previous academic qualification with strong quantitative background is an admission requirement of this course.

Course completion requirements

Requirement	Credit points
STM91515 Core subjects (Quantitative finance)	72
Total	72

Recognition of prior learning

Students may be granted a maximum of 24 credit points of recognition of prior learning.

Master of Data Science in Quantitative Finance

Course content

Course content is comprised of 11 subjects, including six subjects from the Master of Quantitative Finance. Students engage with the in-depth study of financial market instruments, probability theory, and credit and market risk, among others, and diversify their skill sets with specialist study in machine learning, Bayesian methods and mathematical research. Students will also need to complete two research projects as part of this degree.

Is this course right for me?

The Master of Data Science in Quantitative Finance is designed for graduates seeking to d build quantitative knowledge and skills with specialist study in data science and statistical modelling. This course covers the essentials of quantitative finance, data science and statistical modelling. Previous academic qualification with strong quantitative background is an admission requirement of this course.

Course completion requirements

Requirement	Credit points
STM91462 Core subjects (Quantitative finance and data science)	96
Total	96

Recognition of prior learning

Students may be granted a maximum of 36 credit points of recognition of prior learning.

Master of Quantitative Finance

Duration 1.5 years full time*
3 years part time

*This course can be completed during a single UTS academic year over three semesters including the Summer session.

Location City campus

Credit points 72

Course code C04373

Course structure
handbook.uts.edu.au/courses/c04373

CRICOS 088930G

Master of Data Science in Quantitative Finance

Duration 2 years full time
4 years part time

Location City campus

Credit points 96

Course code C04418

Course structure
handbook.uts.edu.au/courses/c04418

CRICOS 107831E

Master of Mathematics and Quantitative Finance

Course content

Course content is comprised of 14 subjects, including six from the internationally recognised Master of Quantitative Finance. Students start by building core competencies in mathematics, statistics and computer programming before progressing to advanced concepts in financial market instruments, probability theory and risk management.

Is this course right for me?

The Master of Mathematics and Quantitative Finance is designed for graduates seeking to build their academic quantitative expertise. This course includes 24 credit points of math units to equip students with the background needed to succeed in quantitative finance. Admission to this course does not require a previous study in a related discipline. requirement of this course.

Course completion requirements

Requirement	Credit points
STM91463 Core subjects (Quantitative finance)	72
STM91543 Core subjects (Mathematics)	24
Total	96

Recognition of prior learning

Students may be granted a maximum of 36 credit points of recognition of prior learning.

Other courses

Students interested in quantitative finance degrees may also be interested in postgraduate mathematics courses:

- Graduate Certificate in Mathematics
- Master of Science (Mathematical and Statistical Modelling)
- Master of Science (Mathematical and Statistical Modelling) (Extension)
- Master of Philosphy in Science (Mathematical and Statistical Modelling)

Master of Mathematics and Quantitative Finance

Duration	2 years full time 4 years part time
Location	City campus
Credit points	96
Course code	C04419

Course structure

handbook.uts.edu.au/courses/c04419

CRICOS 107830F

How to apply

science.uts.edu.au

Contact us

Domestic students

Tel: 1300 ASK UTS (1300 275 887)
Online inquiry: ask.uts.edu.au

International students

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Note, this guide is for local students. International students should refer to the International Course Guide or uts.edu.au/international

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