



Bachelor of Advanced Science

The Bachelor of Advanced Science is no ordinary science degree. Designed for high achievers, it equips students with expertise in one of three disciplines at the forefront of contemporary scientific endeavour. Whether they're working towards careers in medicine, or they want to learn at the cutting edge of pharmaceutical or quantum sciences, students emerge ready to respond to the complex challenges that are shaping their future profession.

Major options

Pre-medicine

Students can build expertise in anatomy, pathophysiology and biochemistry in preparation for postgraduate medicine or a diversity of health care career choices. Curriculum combines research-informed theoretical learning with hands-on study in areas like pharmacology and genetics, and students work with high-quality specimens in our world-class Surgical and Anatomical Science Facility.

Quantum technology

This major puts students at the cutting edge of this critical scientific discipline. Students benefit from highly personalised learning opportunities that offer plenty of face time with both research and teaching staff. They also gain hands-on experience with quantum devices and optical systems and can add breadth to their skill sets by taking a sub-major in Quantum Computing and Communications, or Engineering. What's more, with access to professional placements and cross-faculty electives, students can tailor their studies to suit their future goals.

Pharmaceutical sciences

This major combines a range of medical science subjects with extended learning in chemistry and pharmacology. Students gain a broad understanding of the human body and the impacts of drugs on bodily systems via subjects in anatomy and pathophysiology, building the skills and confidence to work in clinical and medical science environments. By the end of their studies, students are ready for postgraduate pharmacy or for a wealth of career opportunities across the pharmaceutical sector.

Key information

Three major options

Pre-medicine
Pharmaceutical sciences
Quantum technology

2022 selection rank

Pre-medicine (95.05)
Pharmaceutical sciences (90.65)
Quantum technology (N/A)

Location

City campus

Duration

3 years (full time)
6 years (part time)

UAC code

607063 (Pre-medicine)
607061 (Pharmaceutical sciences)
607064 (Quantum technology)

Combine this degree with

Creative Intelligence and Innovation

Course program

Find typical course programs for the Bachelor of Advanced Science.

handbook.uts.edu.au/courses/c10347



“This degree is preparing me for graduate medicine and is helping me learn the practical application of scientific skills in medicine and medical science.”

Jessica Joyce

Bachelor of Advanced Science (Pre-medicine)

Careers

Pre-medicine: Students emerge prepared for graduate medicine or ready to kickstart a wide range of other health and health-aligned careers in communication, policy, medical device sales and technical support, and in the pharmaceutical and therapeutic goods industry. In addition to graduate medicine, students can also pursue further study in pharmacy, physiotherapy and other primary care professions.

Pharmaceutical sciences: The name of this major says it all: graduates emerge ready to pursue a wealth of career options in the booming pharmaceutical sector. They can develop or formulate pharmaceuticals, cosmetics and other products; become pharmaceutical researchers or biotechnologists; work in sales or marketing of pharmaceutical products; or apply their expertise to a range of regulatory, quality assurance or quality control roles. This major is an entry pathway to the UTS Master of Pharmacy.

Quantum technology: This rapidly growing field is producing a suite of new roles at quantum technology companies and start-ups. Graduates are in high demand as quantum algorithm developers, coders, cryptographers, information engineers, cybersecurity or software developers, experimental research scientists, machine learning specialists, nanofabrication or semiconductor scientists/engineers, opto-mechanical researchers or ultra-cold atom scientists.

Course features

Scientist's toolkit

Complete a series of common core subjects that underpin all undergraduate UTS Science degrees. Data, Design and Decisions and Scientific Perspectives for Global Issues are designed to equip students with a toolkit of technical and workplace skills, preparing them to thrive both at and after uni.

Free electives

Students can customise the degree to suit their personal or career aspirations. Enrol in an international exchange, pursue a professional internship, or tailor the degree with a choice of subjects from any UTS faculty.

Professional experiences

Pre-medicine and Pharmaceutical Science students can connect with professional placements in UTS labs and with external health care partners via the rapidly expanding Professional Experience Program. Quantum Technology students benefit from a dedicated internship scheme that helps them build connections and gain hands-on experience at leading local quantum technology companies and start-ups.

Indigenous health subjects

Students studying the pre-medicine and pharmaceutical sciences major complete an Indigenous health subject, preparing them to work with and for First Nation Australians.

Other courses

Other UTS Science courses you might be interested in:

Bachelor of Science (Flexible)

Bachelor of Science (Physics)

Bachelor of Science (Chemistry)

Bachelor of Medical Science

Bachelor of Science (Medical science)

Contact us

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ask.uts.edu.au

Find out more about the
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