THE UNIVERSITY of ADELAIDE

2024

Haide College

Study overseas at the University of Adelaide

GROUP OF EIGHT AUSTRALIA

make history.

Haide College is a Joint Education School between Ocean University of China and the University of Adelaide.

A truly transformative partnership

Haide College provides students access to a global education—allowing you to gain a deeper, more nuanced understanding of your discipline, better communication across languages and cultures, and build important international connections that will facilitate your future career.

Researchers and educators of the University of Adelaide and Ocean University of China collaborate at the highest levels and provide a transformative learning experience for students.

An outstanding, transnational educational experience

As a Haide College student, you will begin your studies at Ocean University of China, and simultaneously undertake program courses and English language courses.

Following successful completion of the first half of your studies at Haide College, you can opt to transfer to the University of Adelaide to complete your studies as part of the student mobility program.

Areas of study

Based on the two universities' teaching and research strengths, three undergraduate programs are offered to students at Haide College:

- Bachelor of Biotechnology
- Bachelor of Food Science and Engineering
- Bachelor of Mathematics and Applied Mathematics

Depending on your chosen program of study, you can choose to complete your degrees at the University of Adelaide through either 2+2 or 3+2 pathway. Refer to the *Your study options* section in this guide for further details.

Students looking to progress to a PhD should consider the 2+2 Honours pathway. Successful completion of the Bachelor Honours program enables students to apply for a PhD pathway, versus following the standard pathway of Bachelors > Masters by coursework > PhD.

Your study options

Students can choose from the following options:

2+2

Haide College program	The University of Adelaide degree
Bachelor of Biotechnology	Bachelor of Biotechnology (Honours)
Bachelor of Food Science and Engineering	Bachelor of Food and Nutrition Science (Honours)
Bachelor of Mathematics and Applied Mathematics	Bachelor of Mathematical Sciences (Honours)

Complete 2 years of study at Haide College and 2 years at the University of Adelaide. If you follow this pathway, you will receive a Bachelor degree from Ocean University of China and a Bachelor degree with Honours from the University of Adelaide.

For those students looking to progress to a PhD, the 2+2 pathway is an excellent option. On successful completion of your Honours program, you will be eligible to apply for a PhD pathway—enabling you to complete your studies a full year earlier than the standard pathway of Bachelors > Masters by coursework > PhD.

3+2

Haide College program	The University of Adelaide degree
Bachelor of Biotechnology	Master of Biotechnology (Biomedical) Master of Artificial Intelligence and Machine Learning Master of Data Science Master of Cyber Security Master of Computing and Innovation
Bachelor of Food Science and Engineering	Master of Global Food and Nutrition Science Master of Artificial Intelligence and Machine Learning Master of Data Science Master of Cyber Security Master of Computing and Innovation
Bachelor of Mathematics and Applied Mathematics	Master of Mathematical Sciences Master of Artificial Intelligence and Machine Learning Master of Data Science Master of Cyber Security Master of Computing and Innovation

Complete 3 years at Haide College and 2 years at the University of Adelaide. If you follow this pathway, you will receive a Bachelor degree from Ocean University of China and a Master by coursework degree from the University of Adelaide.

This option ensures you'll be perfectly positioned to launch your industry career and/or pursue further study through a PhD.

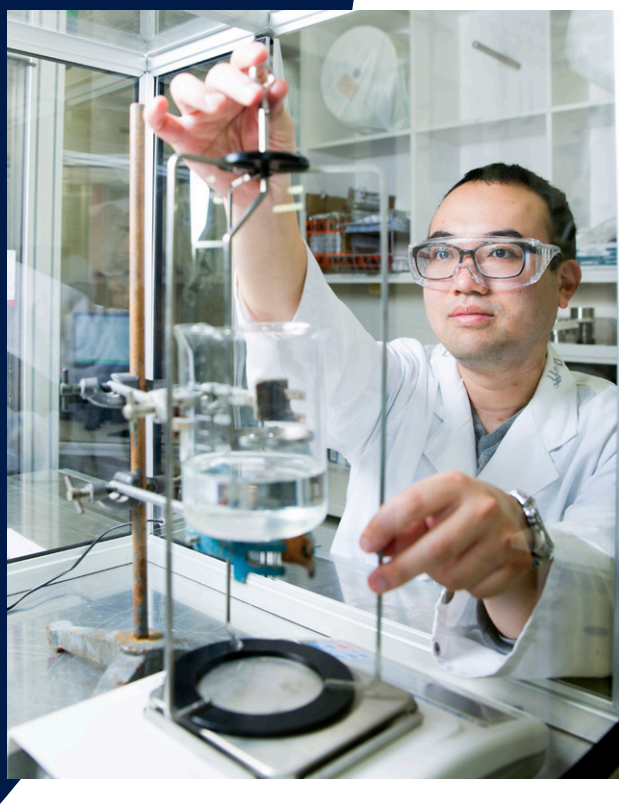
For entry into the University of Adelaide programs, students must meet all of the following:

Approved selection criteria set by Haide College;

Academic entry requirements, as specified in their chosen program; and

Aa **Minimum English Language requirements from one of the University of Adelaide's approved English Language tests.**

For further details on the specific academic entry and Minimum English Language requirements for your specific degree, please visit adelaide.edu.au/degree-finder



Adelaide degrees

For students interested in transferring to Adelaide through 2+2 or 3+2 pathways, the following pages will assist you to discover more about the Adelaide degrees on offer.

Biotechnology

Bachelor of Biotechnology (Honours)

CRICOS 031007C
Duration 4 years full-time (2 years Haide students)
Intakes February and July
Location North Tce campus

Harness nature's potential

Our Bachelor of Biotechnology (Honours) provides high achieving students with automatic entry into an honours year, provided a 4.5 grade point average (GPA) is maintained.

Biotechnology—integrating biology and technology to create innovative solutions—has enormous potential to feed, fuel and heal. This degree will prepare you to enter this exciting and vital industry with advanced capability and an employability edge.

What will you do?

Our Bachelor of Biotechnology (Honours) combines traditional science with aspects of engineering and computer science. You will:

- delve into molecular, genetic, animal and plant biology
- experiment with protein separation, fermentation, genomics and proteomics
- use revolutionary gene editing technology at Australia's first genome editing facility
- explore microbial biotechnology and bioprocess engineering
- learn how to produce food, drugs and other products
- consider global social, economic, environmental and ethical issues, patents and waste management.

In addition to a Molecular Biology major, you can also choose a second specialisation in: Bioinformatics; Chemistry; Genetics; or Microbiology and Biomedical Science.

You can also gain valuable work experience through an industry internship. And hone your research skills through a major research and/or industry-related project in your honours year.

Where could it take you?

You could concoct world-changing pharmaceutical drugs in the lab. You might work to clone animals. Perhaps you'll aid in the development and implementation of modern techniques for disease prediction and treatment.

This degree is eligible to be part of The Academy by Deloitte. To find out more, visit: adelaide.edu.au/the-academy

Biotechnology stats

85
Ranked top 85 globally for Life Sciences and Medicine^

125
Ranked top-125 globally for Biotechnology†

Producing scientific research 'well above world standard'**

^QS World University Rankings by Subject, 2022
**Times Higher Education by Subject, 2023*
*** Excellence in Research for Australia, Australian Government, 2018.*

Master of Biotechnology (Biomedical)

CRICOS 072995M
Duration 2 years full-time
Intakes February and July
Location North Tce campus

Ready to drive progress in a top-ranking postgraduate degree?

Our Master of Biotechnology (Biomedical) focuses on innovative technologies for disease prediction and treatment.

What will you do?

- Learn from active and award-winning researchers in biotechnology and biomedical science
- Gain the latest industry insights from laboratory placements.
- Take courses in entrepreneurship, innovation and intellectual property management.
- Develop advanced research skills through undertaking a one-year independent research project.

You'll also gain access to the following internationally-renowned research facilities and centres:

- Adelaide Proteomics Centre (APC)
- SA Genome Editing Facility (SAGE)
- Genomics Facility (SAHMRI)
- Confocal Microscopy
- Adelaide Microscopy

Where could it take you?

You'll be at the cutting-edge of biotechnology, where major advances are influencing important issues such as healthy aging, vaccines, cancer and stem cell therapies. Due to the strong research focus, this degree is often used as a pathway to a PhD in biotechnology and biomedical science.

Food science

Bachelor of Food and Nutrition Science (Honours)

CRICOS 103527A
Duration 4 years full-time (2 years Haide students)
Intakes February and July
Location North Tce campus, Waite campus

Feed our future

Our Bachelor of Food and Nutrition Science (Honours) provides high achieving students with automatic entry into an honours year, provided a 4.5 grade point average (GPA) is maintained.

The sustainable production of quality food—fundamental to human health and wellbeing—is a thriving, multi-billion-dollar global industry. This degree will equip you to enter this exciting and rewarding field with advanced capability and an employability edge.

What will you do?

Like the Bachelor of Food and Nutrition Science, the direct-entry Bachelor of Food and Nutrition Science (Honours) prepares you to innovate in food. During the first three years, you will:

- tackle global issues like food security and population health to help feed the world into the future
- understand food systems and production from 'farm-gate to fork'
- gain hands-on experience through 120 hours of internship in a food, nutrition or health organisation
- learn how to design, formulate, produce, package and market foods
- develop the skills to apply and reformulate food to combat diet-related health issues
- experiment with food composition and flavour in the lab
- explore ways of developing sustainable, nutritious, safe and healthy food supplies.

Then, in your honours year, you'll deepen your knowledge through a major research project, acquiring significant research skills along the way.

Where could it take you?

You'll graduate with the food and nutrition world at your feet. The bachelor degree's same vast range of career paths will of course be open to you including a pathway to dietetics. With your additional honours qualification—and the enhanced capability it signifies—you'll immediately stand out to potential employers.

This degree is eligible to be part of The Academy by Deloitte. To find out more, visit: adelaide.edu.au/the-academy

Food science stats

Brand new food science labs and kitchen facilities

200

Globally ranked in top 200 for Food Science and Technology*

Producing scientific research 'well above world standard'

** Academic Ranking of World Universities by Subject, 2022*

Master of Global Food and Nutrition Science

CRICOS 109094F
Duration 2 years full-time
Intakes February and July
Location Waite campus

Feed the world

Creating safe, nutritious, sustainable, and equitable food systems is a growing global challenge. New ways of thinking and problem-solving are needed to secure and stabilise our future. Make the most of your talent for chemistry and engineering by developing sought-after specialist skills and become a leader in this expanding field.

What will you do?

Our Master of Global Food and Nutrition Science is technology and innovation focused, with global relevance at all levels. You will:

- expand your knowledge of nutrigenomics and metabolic nutrition
- apply sensory and flavour science to new product development
- investigate emerging processing and preservation techniques
- consider value-adding and reformulation advances
- deep dive into current food trends and opportunities for industry
- critically evaluate local, national, and international legislative and regulatory policy
- tackle issues of equity and social justice
- build peer relationships in your own learning space, within the University's dedicated Food Innovation Laboratory
- complete an independent capstone research project.

Where could it take you?

You might become a leading scientist in designing future food. You could change the future of sustainable packaging. or be a leading consultant for global nutrition initiatives. Perhaps you'll revolutionise first foods for infants or be an expert in antimicrobial resistance.

Mathematical sciences

Bachelor of Mathematical Sciences (Honours)

CRICOS 103725F
Duration 4 years full-time (2 years Haide students)
Intakes February and July
Location North Tce campus

Graduate with an extra career edge

Virtually every industry around the globe depends on mathematical scientists. They analyse and interpret patterns, predict and model outcomes, solve problems and drive progress.

Our Bachelor of Mathematical Sciences (Honours) prepares you to enter this near-limitless world of career possibility. It provides the same breadth and depth of learning as the foundation bachelor degree, but with the additional opportunity to advance directly into a research-focused fourth-year honours program.

What will you do?

Taking a major in Applied Mathematics, Pure Mathematics or Statistics, you will:

- learn from award-winning researchers and teachers in state-of-the-art facilities
- build fundamental statistical and mathematical knowledge
- hone your creativity, rigour, logical thinking, professionalism and research skills, including through a significant fourth-year independent research project
- delve into abstract theories underpinning modern science
- create, collect, analyse and model data.

You'll need to maintain a GPA of 4.5 throughout your studies to retain your place; drop below this and you'll need to transfer to the foundation Bachelor of Mathematical Sciences.

Direct entry into the fourth (honours) year will require completion of 12 units of Level III courses in Applied Mathematics, Pure Mathematics or Statistics, with a minimum GPA of 5.

Where could it take you?

You'll emerge well equipped for all sorts of fascinating, high-tech careers. The additional honours year will give you an undoubted employability edge, clearly signalling your superior problem-solving capability. You will also be perfectly placed to pursue further postgraduate research through a masters or PhD.

Master of Mathematical Sciences

CRICOS 109094F
Duration 2 years full-time
Intakes February and July
Location North Tce campus

Excel in mathematics

Mathematics is both a logical and creative pursuit. It drives human progress, with millions of industries around the world depending on mathematical scientists.

Our Master of Mathematical Sciences is an intensive degree designed for students with backgrounds in related study areas.

What will you do?

- Develop advanced research skills as you learn from award-winning academics in state-of-the-art facilities.
- Take your mathematical knowledge to an advanced level through a major of your choice.

Majors are available in:

- Applied Mathematics—use mathematical techniques to answer questions about the world around us. These answers might come in the form of insights, explanations, solutions or predictions.
- Pure Mathematics—study abstract theories built by logical deduction that underpin modern science and technology.
- Statistics—solve real-world problems through the collection, analysis and modelling of data.

Where could it take you?

Our maths graduates go on to all sorts of fascinating careers in technology-led industries. You could help build business start-ups as a data scientist or enter the growing field of gaming design and performance analysis. You might be an actuary, applying probability and statistics to insurance and banking. Perhaps you'll take your research to the next level in academia.

Mathematical sciences stats

144

Ranked #144 globally for mathematics*

Research well above world standard in Pure and Applied Mathematics^

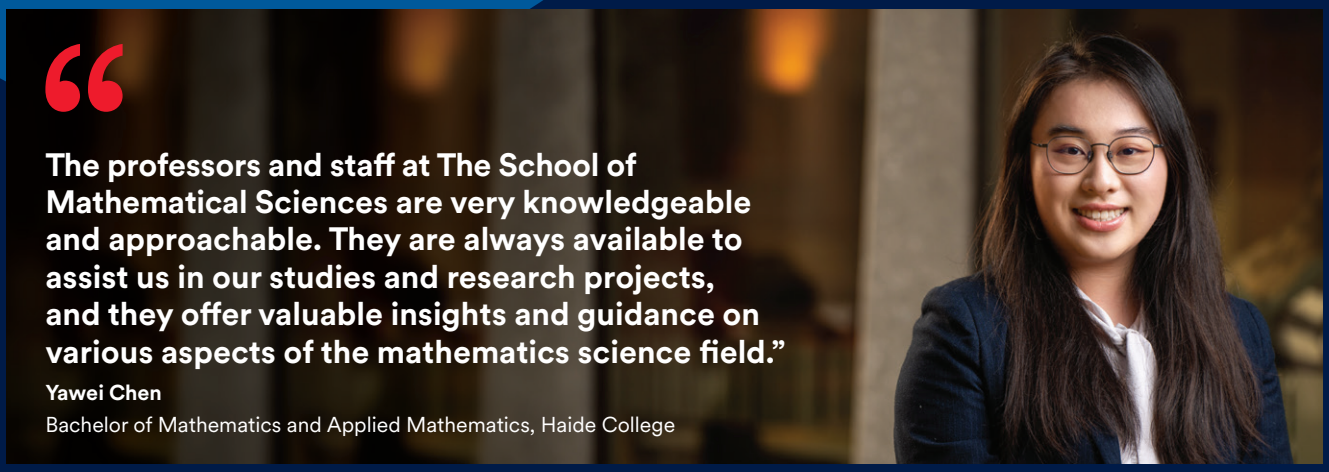
Research well above world standard in Statistics^

*^ Excellence in Research for Australia 2018 *QS World University Rankings by Subject, 2022*

Hear from Haide College students in Adelaide

Studying at the University of Adelaide is a fantastic feeling. We are well supported in our time here. As biotechnology students, we've been able to learn a lot of leading-edge knowledge here and get a lot of experience in the lab, surely boosting our future development."

Anqi Wang
Bachelor of Biotechnology, Haide College



The professors and staff at The School of Mathematical Sciences are very knowledgeable and approachable. They are always available to assist us in our studies and research projects, and they offer valuable insights and guidance on various aspects of the mathematics science field."

Yawei Chen
Bachelor of Mathematics and Applied Mathematics, Haide College

Studying an Honours degree in Food and Nutritional Sciences at the Waite campus has given me a more comprehensive expertise and the opportunity to interact with outstanding researchers. I gained relevant work experience through the internship in food and nutrition science, which further deepened my professional knowledge."

Ruomeng Li
Bachelor of Food Science and Engineering, Haide College

Meet our researchers

Associate Professor Dan Peet

School of Biological Sciences, University of Adelaide

Associate Professor Dan Peet's research interests the molecular events underlying the cellular response to hypoxia, which is crucial for physiological processes and its contributions to major diseases. He seeks to identify and characterise novel substrates of hydroxylases, which has diagnostic, prognostic, and therapeutic implications

His recent focus is on the unusual metabolism of proliferating cells, including cancer cells and photoreceptor cells in the retina. Associate Professor Peet aims to determine the control mechanisms behind this metabolism and its implications for retinal disease.

Professor Rachel Burton

School of Agriculture, Food and Wine, University of Adelaide

Professor Rachel Burton is a distinguished plant scientist and molecular biologist, driven by her fascination with plant cell walls. Her expertise encompasses plant cell wall biology, cereal grain quality, seed mucilage biology, and biofuel feedstocks.

As Head of Department and Chief Investigator at the Australian Research Council Centres of Excellence, she has a global presence, receiving invitations to speak and collaborate worldwide.

Through her relatable approach, she connects with diverse audiences, inspiring a deeper understanding of the profound impact of plants and science on our daily lives.

Professor Lewis Mitchell

School of Computer and Mathematical Sciences, University of Adelaide

Lewis Mitchell is a Professor of Data Science, and Director of the Adelaide Data Science Centre. He studies how information moves over social networks using mathematical models, coupled with data science techniques.

His research interests span across computational social science, human dynamics, online social networks, as well as data assimilation and the mathematics of weather and climate change.

Professor Mitchell is the recipient of numerous awards, including the SA Young Tall Poppy Award (2018), and the JH Michell Medal for outstanding new researchers (2021).

Adelaide the perfect city for students

Adelaide has a bustling, energetic city centre and is renowned for its festivals, cultural life and sporting events. With great shopping, beaches, a cafe culture, affordable student accommodation and friendly residents, Adelaide offers a relaxed lifestyle with all the convenience of city living. Our innovation precincts, such as Adelaide BioMed City and Lot Fourteen, attract multinationals, nurture entrepreneurship, and foster an ever-evolving spirit of creativity and invention.

Australia's most affordable mainland city

Safe and relaxed, Adelaide is ranked as one of the world's most liveable cities*—and with a cost of living up to 14% lower than Sydney or Melbourne, it also comes in as one of Australia's most affordable mainland cities^.

Home to innovation

Adelaide is home to a globally impactful innovation ecosystem. Our future industries focused precincts—from Adelaide BioMed City to Lot Fourteen—attract multinationals and nurture entrepreneurship across the city.

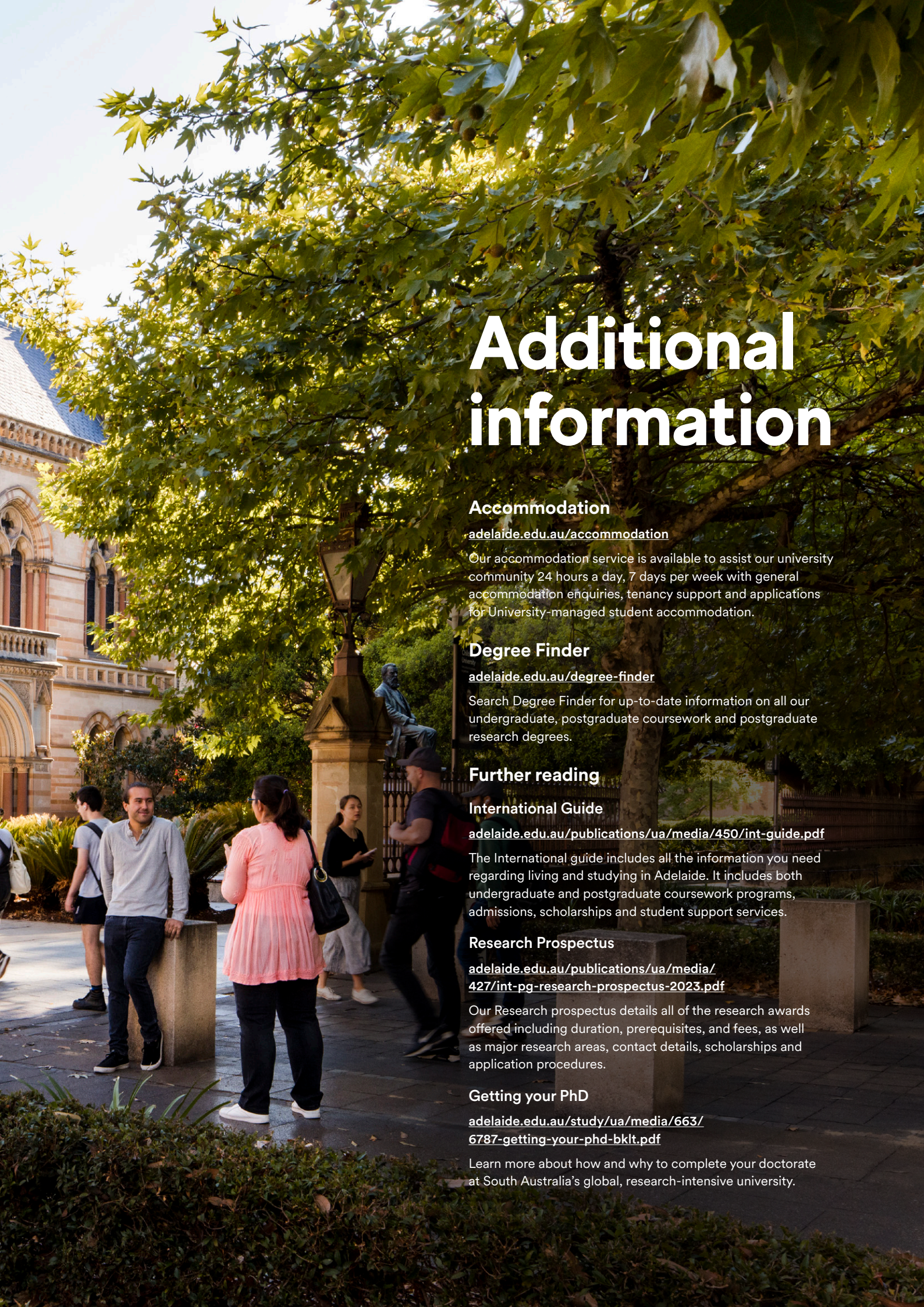
Culturally diverse

South Australians hail from over 120 different countries, creating a wonderful mix of cultures and influences. One in five South Australians were born overseas!

* Economist Intelligence Unit Global Liveability Index, 2021

^ Study Adelaide studyadelaide.com

make
history.



Additional information

Accommodation

adelaide.edu.au/accommodation

Our accommodation service is available to assist our university community 24 hours a day, 7 days per week with general accommodation enquiries, tenancy support and applications for University-managed student accommodation.

Degree Finder

adelaide.edu.au/degree-finder

Search Degree Finder for up-to-date information on all our undergraduate, postgraduate coursework and postgraduate research degrees.

Further reading

International Guide

adelaide.edu.au/publications/ua/media/450/int-guide.pdf

The International guide includes all the information you need regarding living and studying in Adelaide. It includes both undergraduate and postgraduate coursework programs, admissions, scholarships and student support services.

Research Prospectus

adelaide.edu.au/publications/ua/media/427/int-pg-research-prospectus-2023.pdf

Our Research prospectus details all of the research awards offered including duration, prerequisites, and fees, as well as major research areas, contact details, scholarships and application procedures.

Getting your PhD

adelaide.edu.au/study/ua/media/663/6787-getting-your-phd-bklt.pdf

Learn more about how and why to complete your doctorate at South Australia's global, research-intensive university.

Further enquiries

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Kaurna acknowledgement
We acknowledge and pay our respects to the Kaurna people, the original custodians of the Adelaide Plains and the land on which the University of Adelaide's campuses at North Terrace, Waite, and Roseworthy are built. We acknowledge the deep feelings of attachment and relationship of the Kaurna people to country and we respect and value their past, present and ongoing connection to the land and cultural beliefs. The University continues to develop respectful and reciprocal relationships with all Indigenous peoples in Australia, and with other Indigenous peoples throughout the world.