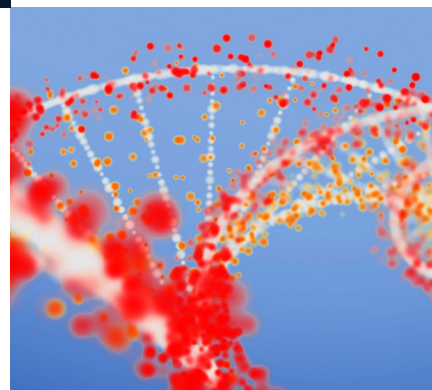




Science study guide

Course options and
career opportunities

swinburne.edu.au/science

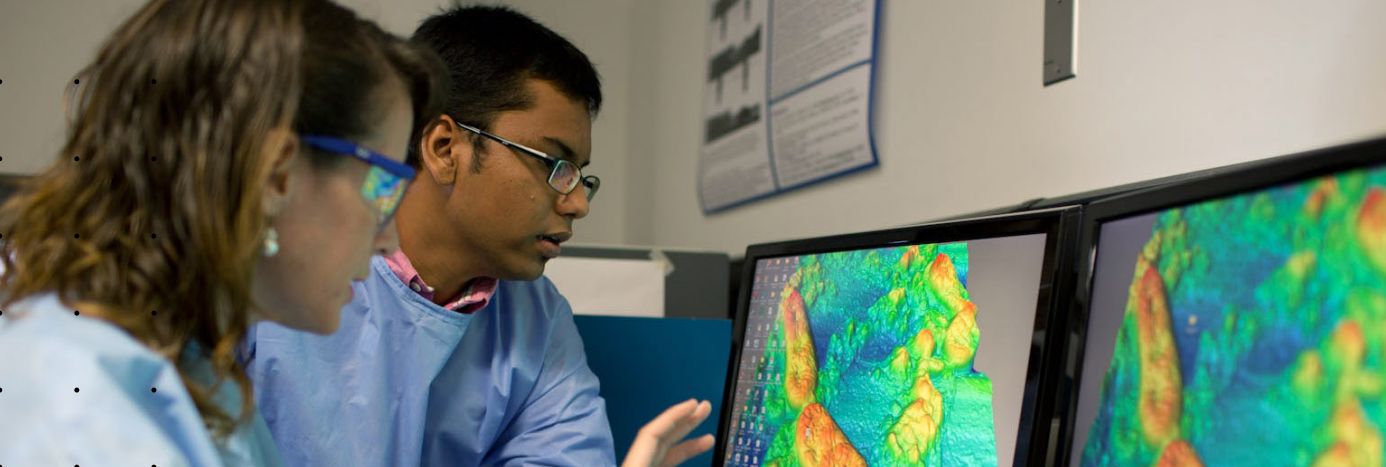


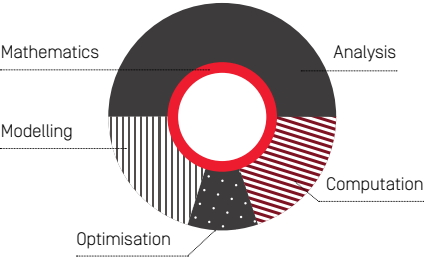
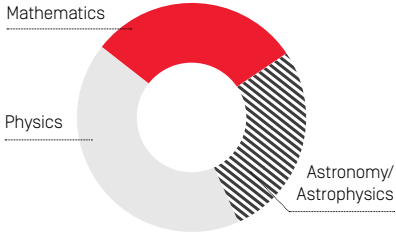
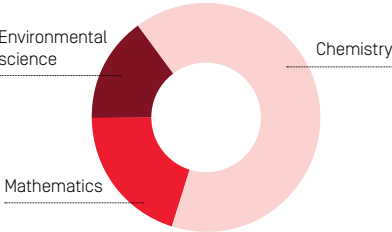
Where will science take you?

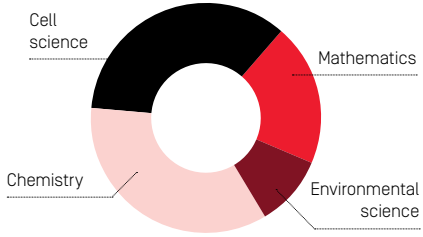
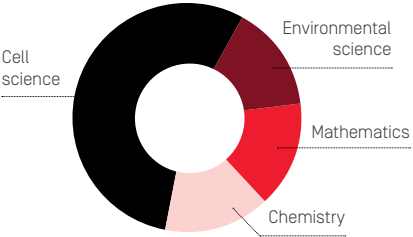
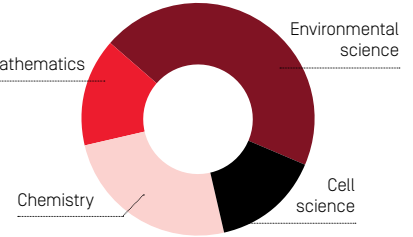
When you study science at Swinburne, you embark on a journey of discovery.

You'll experience practical learning and conduct research in world-class labs. You'll study in a university setting that has strong connections with industry and regularly collaborates with esteemed researchers.

Science equips you with excellent problem-solving skills so you can help make better sense of the world. And it takes you in many exciting career directions.



<p>I want to learn</p> <p>How to use mathematics to model our world</p>	<p>I want to learn</p> <p>About matter and how the universe works</p>	<p>I want to learn</p> <p>About how molecules react and can be manipulated</p>
<p>Study</p> <p>Mathematics</p> <p>To learn about</p> 	<p>Study</p> <p>Physics</p> <p>To learn about</p> 	<p>Study</p> <p>Chemistry</p> <p>To learn about</p> 
<p>With a degree</p> <p>Bachelor of Science (Professional) with a major in applied mathematics</p> <p>Bachelor of Science with a major in applied mathematics</p> <p>Pathway to a degree:</p> <p>Diploma of Science (UniLink)</p>	<p>With a degree</p> <p>Bachelor of Science (Professional) with a major in physics</p> <p>Bachelor of Science with a major in physics</p> <p>Pathway to a degree:</p> <p>Diploma of Science (UniLink)</p>	<p>With a degree</p> <p>Bachelor of Science (Professional) with a major in chemistry</p> <p>Bachelor of Science with a major in chemistry</p> <p>Pathway to a degree:</p> <p>Diploma of Science (UniLink)</p>
<p>To become</p> <ul style="list-style-type: none">• Mathematical researcher• Quantitative analyst• Financial analyst• Actuary• Biological and climate modeller	<p>To become</p> <ul style="list-style-type: none">• Research and development physicist• Financial modeller and forecaster• Medical physicist• Meteorologist and climate modeller• Astrophysicist• Data analyst	<p>To become</p> <ul style="list-style-type: none">• Chemical researcher• Analytical forensic scientist• Agricultural or environmental scientist• Diagnostic laboratory scientist• Food or beverage production technician• Pharmaceutical scientist <p>Or a diploma or certificate</p> <p>Diploma of Laboratory Technology</p> <p>Certificate IV in Laboratory Technology</p> <p>Certificate IV in Science</p> <p>To become</p> <ul style="list-style-type: none">• Laboratory technician• Technical officer

<p>I want to learn</p> <p>About how molecules make your body work</p>	<p>I want to learn</p> <p>About cells and how to change them</p>	<p>I want to learn</p> <p>About water and agriculture, and how to manage them</p>
<p>Study</p> <p>Biochemistry</p> <p>To learn about</p> 	<p>Study</p> <p>Biotechnology</p> <p>To learn about</p> 	<p>Study</p> <p>Environmental science</p> <p>To learn about</p> 
<p>With a degree</p> <p>Bachelor of Science (Professional) with a major in biochemistry</p> <p>Bachelor of Science with a major in biochemistry</p> <p>Pathway to a degree:</p> <p>Diploma of Science (UniLink)</p>	<p>With a degree</p> <p>Bachelor of Science (Professional) with a major in biotechnology</p> <p>Bachelor of Science With a major in biotechnology</p> <p>Pathway to a degree:</p> <p>Diploma of Science (UniLink)</p>	<p>With a degree</p> <p>Bachelor of Science (Professional) with a major in environmental science</p> <p>Bachelor of Science with a major in environmental science</p> <p>Pathway to a degree:</p> <p>Diploma of Science (UniLink)</p>
<p>To become</p> <ul style="list-style-type: none">• Biochemical researcher• Clinical biochemist• Agricultural or environmental scientist• Forensic scientist• Food or beverage production technician• Pathologist <p>Or a diploma or certificate</p> <p>Diploma of Laboratory Technology</p> <p>Certificate IV in Laboratory Technology</p> <p>Certificate IV in Science</p> <p>To become</p> <ul style="list-style-type: none">• Laboratory technician• Technical officer	<p>To become</p> <ul style="list-style-type: none">• Biotechnology researcher• Clinical biochemist• Agricultural or environmental scientist• Diagnostic laboratory scientist• Food or beverage production technician• Pharmaceutical scientist <p>Or a diploma or certificate</p> <p>Diploma of Laboratory Technology</p> <p>Certificate IV in Laboratory Technology</p> <p>Certificate IV in Science</p> <p>To become</p> <ul style="list-style-type: none">• Laboratory technician• Technical officer	<p>To become</p> <ul style="list-style-type: none">• Environmental scientist or consultant• Sustainability analyst• Water quality expert• Plant and animal breeder



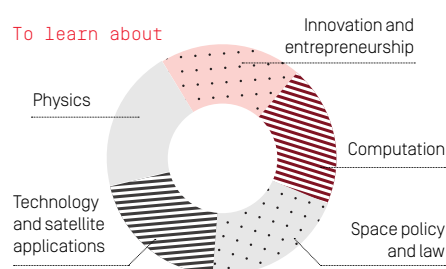
I want to learn

About space science and technology and how space operations are managed

Study

Space technology

To learn about



With a degree

Bachelor of Science (Professional)
with a co-major in space technology

Bachelor of Science
with a co-major in space technology

To become

- Mission designer
- Space engineer
- Space research scientist
- Satellite technician
- Space administrator

The information provided here was correct at the time of printing (July 2021). For the most up-to-date information, please visit swinburne.edu.au

Your next gen_now upgrades

Guaranteed real industry experience

At Swinburne, your education is more than reading; with our Work Integrated Learning program, it's doing. Start building your résumé with placements, internships and industry-linked projects while you study. Real industry experience is guaranteed in all our bachelor degrees that commence in 2021 and beyond.

Visit swinburne.edu.au/workintegratedlearning

Professional Degrees

More than a standard bachelor degree, a Professional Degree is a premium university experience you'll graduate from having completed a 12-month full-time work placement. Not only will you apply your knowledge in the workplace, you'll be paid award rates and receive academic credit.

Double degrees

Double degrees are a great way to broaden your study experience and are highly respected by employers. They combine two areas of study and on completion you'll be awarded two degrees.

A double degree is generally only one year longer than a single degree.

Consider combining your IT degree with a degree in another study area by studying:

- Bachelor of Arts/Bachelor of Science
- Bachelor of Engineering (Honours)/Bachelor of Science
- Bachelor of Health Science/Bachelor of Science
- Bachelor of Laws/Bachelor of Science

Pathways to a degree

UniLink diplomas

UniLink diplomas are equivalent to eight units of study (typically one year of full-time study) and can provide a pathway to the second year of a related bachelor degree.

These courses are an option for students who miss direct entry to a degree or who would benefit from a more supportive style of learning.

Vocational education

Diplomas and certificates are vocational qualifications that provide practical teaching and skills for work. A vocational qualification could prepare you for your first job, help you retain or take the first step in a career change.

Successful completion of a vocational qualification may also allow you to progress to another qualification with advanced standing.

Scholarships

The Vice-Chancellor's Excellence Scholarship is awarded to students in recognition of academic excellence. Recipients will receive \$5000 per annum for the normal duration of their chosen degree, plus a one-off payment of \$2000 towards an international study experience.

Swinburne also offers scholarships to students from indigenous backgrounds, students suffering from financial hardship and students who have relocated from regional areas to study. For a full list of scholarships, including value and eligibility criteria, visit swinburne.edu.au/scholarships