

# Bachelor of Engineering (Honours) Mining

CAMPUS	DURATION	ATAR - SR	IB	UAC	CRICOS	STARTS IN
 Wollongong	4yrs	80/95 S*	28/37* D	755615/755601 S	083339G	Session 1 (February) Session 2 (July)

S - Scholars option is available  
\* This rank is the minimum ATAR - SR or IB required for consideration and does not provide guaranteed entry.

Mining engineers apply science, geoscience, engineering and technology to the efficient extraction of minerals from the earth, turning raw materials into valuable products. Minerals are a major component of all manufacturing and construction, and the demand for minerals will continue into the future.

Mining engineers play an essential role in applying their knowledge of mine design and mining practices to ensure the safety of workers, the protection of the environment and effective rehabilitation at the end of a mine's life.

#### THIS DEGREE

You will study a common core of subjects during your first year allowing you to learn the fundamentals of engineering and the different applications of engineering before deciding upon a particular engineering discipline to study. The common first year provides you with sound fundamentals in mathematics, statistics, physics, computing, engineering science and communication, mechanics and materials. You then focus on your chosen major / specialisation from the second year onward.

Mining is also available as a double degree with options including Arts, Computer Science, Commerce, Mathematics, Science, Journalism and Law. You can also choose a double major with civil, environmental, materials or mechanical.

For more information visit  
[uow.info/eng-mining](http://uow.info/eng-mining)

#### WHAT YOU WILL STUDY

At UOW, Mining Engineering focuses on the design of engineering systems, with an emphasis on mining methods, ventilation, environmental engineering, rock mechanics, ore reserve estimation, computer modelling and simulation, mineral beneficiation and mining economics.

The final sessions of the course are professionally orientated with the inclusion of subjects such as mine planning, work health and safety, mine rehabilitation and green mining technology, the environmental sustainability of mining operations and project management.

#### ACCREDITATION

UOW'S engineering programs are accredited by Engineers Australia, and under the Washington Accord, you are accredited to work as an engineer in many other countries including in the USA, UK, Hong Kong, Japan, New Zealand, Canada and other countries. The degree is also recognised by the Australasian Institute of Mining and Metallurgy (AUSIMM).

#### INDUSTRY READY

Your degree includes a 12-week hands-on industry placement or internship. You may gain credit for relevant work experience, either in Australia or overseas, by participating in our Professional Options Program.



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# Why choose this course

## BE GLOBAL

Engineers solve problems all over the world. Your degree provides you with the opportunity to go on overseas study tours, and be part of humanitarian projects helping disadvantaged communities anywhere in the world.

## WORLD CLASS FACILITIES

As an engineering student at UOW you will have access to fully-equipped laboratories and the latest computer-aided software that is used in modern industrial workplaces. Our academics are leading experts in their fields and internationally respected and recognised.

## ENTRY REQUIREMENTS

Assumed Knowledge: Any 2 units of English, HSC Mathematics (not Mathematics General 2).

Recommended Studies: HSC Mathematics Extension 1, Physics, Chemistry and Engineering Studies. (Bridging courses in Physics and Chemistry are held in February each year).

## CAREERS

- Consultant
- Drill and Blast Engineer
- Geotechnical Engineer
- Government Policy and Planning
- Machinery Automation
- Mineral Engineer
- Mining Engineer
- Mine Planner and Developer
- Mining Safety Engineer
- Operation and Tunneling Manager
- Project Manager
- Researcher
- Ventilation Engineer

## SCHOLARSHIPS

As a mining student, you will have access to industry sponsored scholarships provided by South32, Glencore, Anglo America and Yancoal Australia, as well as work opportunities with these mining companies.

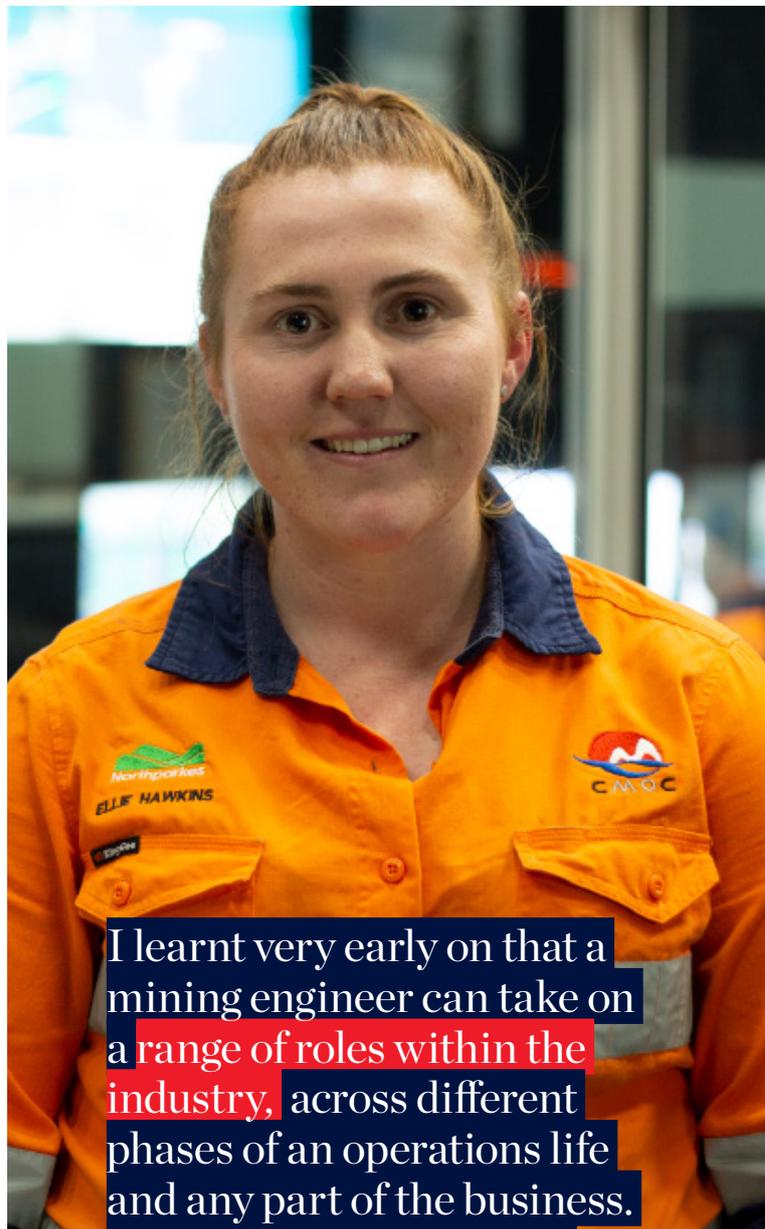
## BELONG TO ONE OF THE BEST

### Top 24

UOW ranked 24th in the world for Mineral and Mining Engineering in the QS World University Rankings by subject 2020.

### 2nd in NSW/ ACT

UOW Engineering ranked second in NSW/ACT in the federal governments Quality Indicators for Learning and Teaching (QILT) 2020.



I learnt very early on that a mining engineer can take on a range of roles within the industry, across different phases of an operations life and any part of the business. I still get a kick out of the ability to see your work in 'real life'.

—  
Ellie  
Bachelor of Engineering (Honours) Mining

## Key dates

UOW Early Admission apps open	20 Jul - 14 Aug
UOW Virtual Open Day	8 Aug
UAC Early Bird applications close	30 Sep
UAC December Round 2 offers close	17 Dec

## Learn more

[uow.info/eng-mining](http://uow.info/eng-mining)



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