
ENGINEERING & CONSTRUCTION

ANDREA
Bachelor of Engineering



THE

NEW WAY

TO DO UNI



**VICTORIA
UNIVERSITY**

WHERE CAN VU TAKE YOU IN ENGINEERING & CONSTRUCTION?

Contribute to the future development of our cities and tech industries. As a VU engineering or construction student, you'll have the opportunity to learn from and gain work experience with industry partners and networks. Our students have gained hands-on experience with AMP Capital Investors, Australian Defence Force, Bushfire and Natural Hazard CRC, City West Water,

Engineers Australia, Transurban, Intrax Consulting Engineers, Level Crossing Removal Authority, VicRoads, Yarra Valley Water and many more.

VU is ranked among the top three universities in Victoria for education in engineering and technology (THE World University Rankings 2019) and we were one of the first Australian universities

to offer an Architectural Engineering degree.

Study at VU and discover why employers nation-wide rate our graduates second highest for employability*.



CAREER

CIVIL ENGINEERING

Prepare for a career designing practical and sustainable community infrastructure.



ORGANISATIONS YOU MAY WORK IN

Wide range of government departments, consulting firms, scientific and technical services and construction safety.



POTENTIAL JOB TITLES

Civil Infrastructure Engineer; Civil Design Engineer; Construction Engineer; Engineering Technician; Environmental Engineer.

ARCHITECTURAL ENGINEERING

Gain the expertise needed to integrate structural systems into architects' plans and more.

Architecture, engineering and construction.

Design Engineer; Building Services Engineer; Hydraulic Engineer; Estimator; Structural Engineer.

ELECTRONIC & ELECTRICAL ENGINEERING

Pursue a career in electronic design, power generation or communication technology.

Robotics, renewable energy, transport, telecommunications, manufacturing and bioengineering.

Electrical or Electronic Engineer; Telecommunications Engineer; Power Engineer; Embedded Software Engineer.

MECHANICAL ENGINEERING

Get set for a career inventing devices and generating clever solutions to engineering challenges.

Product development, transport, construction, defence, medical mining, petrochemical or power generation.

Mechanical Engineer; Design Engineer; Product or Product Innovation Engineer; Development Engineer or Production Manager.

BUILDING SURVEYING

Gain the practical training for building inspection and surveying work.

Construction, professional scientific and technical services, public administration and safety, self-employment and contracting.

Building Surveyor; Building Proprietor; Developer; Building Consultant; Surveying Technician.

*2020 Employer Satisfaction Survey.

COURSE

FURTHER INFORMATION

ENGINEERING

Certificate II in Engineering Studies	vu.edu.au/courses/22470VIC
Certificate III in Engineering (Mechanical Trade)	vu.edu.au/courses/MEM30205
Certificate III in Engineering (Fabrication Trade)	vu.edu.au/courses/MEM30305
Certificate IV in Engineering	vu.edu.au/courses/MEM40105
Certificate IV in Industrial Automation and Control	vu.edu.au/courses/UEE43211
Bachelor of Engineering (Architectural Engineering) (Honours)	vu.edu.au/courses/NHEA
Bachelor of Engineering (Civil Engineering) (Honours)	vu.edu.au/courses/NHEC
Bachelor of Engineering (Electrical and Electronic Engineering) (Honours)	vu.edu.au/courses/NHEE
Bachelor of Engineering (Mechanical Engineering) (Honours)	vu.edu.au/courses/NHEM

CONSTRUCTION

Certificate II in Building and Construction Pre-apprenticeship	vu.edu.au/courses/22338VIC
Certificate II in Construction Pathways	vu.edu.au/courses/CPC20211
Certificate II in Civil Construction	vu.edu.au/courses/RII20715
Certificate III in Civil Construction	vu.edu.au/courses/RII30915
Certificate III in Civil Construction Plant Operations	vu.edu.au/courses/RII30815
Certificate III in Construction Waterproofing	vu.edu.au/courses/CPC31411
Certificate IV in Civil Construction Supervision	vu.edu.au/courses/RII40715
Certificate IV in Civil Construction Operations	vu.edu.au/courses/RII40615
Certificate IV in Building and Construction (Building)	vu.edu.au/courses/CPC40110
Certificate IV in Building and Construction (Estimating)	vu.edu.au/courses/CPC40308
Diploma of Building and Construction (Building)	vu.edu.au/courses/CPC50210
Advanced Diploma of Building Design (Architectural)	vu.edu.au/courses/22477VIC
Advanced Diploma of Building Surveying	vu.edu.au/courses/CPC60115



PRACTICAL LEARNING

All our courses are designed to fully prepare you for work, and taught by industry-connected teachers who are experts in the field. Hands-on learning, industry-sourced projects and high-tech engineering and construction laboratories will shape you into a stand-out graduate.

PROBLEM-BASED LEARNING (PBL)

Our Problem-Based Learning (PBL) program is embedded across our courses, allowing you to develop your critical thinking skills. Get hands-on experience solving real-world problems provided by industry partners like City West Water, Intrax Consulting Engineers, Transurban, CISCO and Hendry Group.

WORK PLACEMENTS

As an engineering student, you will be required to complete 12 weeks of industry placement, exposing you to a network of industry contacts and helping you develop practical competencies. These placements can lead directly to future employment in your chosen role.

FACILITIES

You will gain hands-on experience in our state-of-the-art engineering labs and facilities in areas such as structural, geomechanics, hydraulics, thermodynamics, analytical chemistry, biotechnology, microelectronics, information technology, power engineering and mechanics.



“VU GAVE ME THE SKILLS TO WORK WITH OTHER CONSULTANTS TO DESIGN SUSTAINABLE BUILDINGS.”

“Modelling in the course included thermal, energy and site water consumption. We also learned the importance of indoor environment quality and how this translates to how an occupant feels within a space.

Towards the end of my degree, I was accepted into an employer graduate program, which became a permanent position.

I am now a principal sustainability consultant and team leader at AECOM, leading a team of eight.”

Sian

Bachelor of Engineering (Honours)
(Architectural Engineering)



THE NEW WAY TO DO UNI

AT VU WE KNOW THERE'S MORE THAN ONE WAY TO SUCCEED AT LEARNING, SO WE PROVIDE MULTIPLE WAYS TO ACHIEVE A WORLD-CLASS EDUCATION AND EXCITING CAREER.

We are one of only six universities in Australia to offer both TAFE and university courses, meaning you can choose the level of study that best suits you.

Our courses are designed with close industry consultation, and you'll have opportunities for engaging work placements and internships to give you a head start in your future workplace. But above all, VU's New Way To Do Uni is about putting you and your success at the centre of everything we do. Our richly diverse and supportive community will reward you with unique experiences in the classroom and beyond.

VU BLOCK MODEL

In 2018 VU was the first Australian university to introduce the VU Block Model. This new approach to learning is focused on making your transition into university easier, your chances of study success greater, and giving you the skills to succeed when you enter the workforce.

WHY IS VU'S BLOCK MODEL BETTER FOR ME?

1

YOU'LL FOCUS ON ONE SUBJECT AT A TIME

Complete one subject every four weeks before moving on to the next. At other universities, you need to complete multiple subjects at once, while at VU you'll be fully focused on each subject.

2

YOU'LL BUILD YOUR CONFIDENCE

The progression of subjects in the Block Model will give you early feedback and success, and build confidence in your studies from day one.

3

YOU'LL FEEL SUPPORTED

Smaller classes mean you have more one-on-one time with your teachers and classmates. And with a timetable that can allow flexibility outside of uni, you can work, and spend time with family, friends and pursue other interests.

GET FUTURE FOCUSED WITH BLENDED LEARNING

Study at Victoria University Polytechnic, VU's TAFE division, and you'll learn with our multi-award winning Blended Learning model. Blended Learning is flexible, industry-based and focused on preparing you for the modern workplace. It replaces paper-based theory tuition with a combination of user-friendly online learning and face-to-face workshops. Online components mean you can learn anytime, anywhere – and then you'll refine your skills through practical learning and on-the-job work placements.

PATHWAYS

Course 'pathways' offer an easy transition between courses at different levels, so that you can start with a certificate and progress right through to postgraduate study – in many cases gaining credits along the way. Students starting in Higher Education degrees can also add to their portfolio of skills with practical, hands-on training through our TAFE programs.

Find out more at vu.edu.au/pathways



**VICTORIA
UNIVERSITY**

**FIND OUT MORE
VISIT VU.EDU.AU**

**CONTACT US
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