WONTHAGGI SECONDARY COLLEGE

CAREER NEWS 9 Monday April 16th

Dates to Diarise in Term 2

- **ACN Nursing & Health Expo** – Saturday 28 April, MCEC
- **VCE & Careers Expo** – 3 May to 6 May, Caulfield Racecourse
- **Law Week** – 14 to 20 May, various locations
- **Tertiary Information Session (TIS) Friday May 18th at Leongatha 10.15-11.15am – all Year 12's to attend we will be bussed over at 9am and return for lunch.**

ACN Nursing and Health Expo

The Australian College of Nursing (ACN) is hosting a *free* ***Nursing & Health Expo***, the perfect opportunity to discover more about **nursing or health professions**. With over many exhibitors including hospitals, health care services, educational institutions and specialty nursing groups, this expo will provide students with a greater insight into this industry.

Date: Saturday 28 April 2018
Time: 8.30am – 1.30pm
Venue: Melbourne Convention & Exhibition Centre, Exhibition Bays 1 & 2, 2 Clarendon Street, South Wharf

Find out more at ACN Nursing and Health Expo

VCE and Careers Expo 2018

All VCE students are encouraged to attend the upcoming VCE & Careers expo at the Caulfield Racecourse taking place from 3 May – 6 May 2018.

There will be over 170 exhibitors providing information on -

- Information and resources for the VCE
- Information about university, TAFE and training courses
- Career advice
- Study advice
- International exchange and gap year programs

General admission tickets are $10.00 per person and are valid for all four days.
Visit The VCE and Careers Expo to find out more!

MONASH University

REMINDER: Inside Monash Seminar Series 2018

Get the inside story of what it's really like to study at Monash. You'll hear from a current student, a past student and an academic. It's the best 90 minutes you could spend researching your course. Bring along your parents too! The **Inside Monash Seminar Series** commences in April! These seminars provide VCE students with an insight into the courses and career options within discipline areas. The seminars are held in various locations across the Caulfield, Clayton, Peninsula, and City campuses, and seminars with the same title have the same program. **All seminars commence at 6.30pm. Exact venue details are available on registration at Inside Monash Seminars**

DATE	EVENT	CAMPUS
Thursday 19 April	**Design**	Caulfield
Thursday 19 April	**Law**	Clayton
Monday 23 April	**Fine Art**	Caulfield
Tuesday 24 April	**Media and Communication**	Caulfield
Tuesday 24 April	**Biomedical Science and Doctor of Medicine (MD)**	Clayton
Thursday 26 April	**Architecture**	Caulfield
Thursday 26 April	**Business**	Clayton
Thursday 26 April	**Science**	Clayton
Tuesday 8 May	**Arts, Criminology, and Global Studies**	Clayton
Tuesday 8 May	**Pharmacy and Pharmaceutical Sciences**	Parkville
Wednesday 9 May	**Public Health and Health Science**	Caulfield
Thursday 10 May	**Advanced Science**	Clayton
Wednesday 16 May	**Biomedical Science, Radiography, Radiation Science, Nutrition**	Clayton
Thursday 17 May	**Education**	Clayton
Thursday 17 May	**Information Technology**	Clayton
Tuesday 22 May	**Occupational Therapy, Physiotherapy, and Paramedicine**	Peninsula
Thursday 24 May	**Education**	Peninsula
Thursday 24 May	**Engineering**	Clayton
Wednesday 6 June	**Nursing and Midwifery**	Peninsula
Wednesday 20 June	**Psychology**	Clayton
Thursday 21 June	**Business**	City
Thursday 12 July	**Science**	Clayton
Tuesday 14 August	**Music**	Clayton
Thursday 6 September	**Information Technology**	Clayton
Thursday 13 September	**Engineering**	Clayton

REMINDER: 'My Melbourne Future' Series

Senior students should note that during the months of May and June, the University of Melbourne will be hosting a series of *free* ***'My Melbourne Future'*** **Information Sessions at the Parkville Campus** in the early evening, aimed at informing prospective students about the courses on offer; hear from current students, academic staff and recent graduates about what it is like to study that degree or course at Melbourne, and the career and personal development opportunities available to graduates. These events will include a Careers of the Future presentation, a sample lecture, student experience insights with Q&A and a courses expo.

Registrations will open soon, but students can pre-register for updates from Melbourne at My Melbourne Future

Date	Event
Tuesday 15 May	Agriculture, Science, Technology, Engineering, and Design
Thursday 31 May	Health, and Veterinary Science
Tuesday 5 June	Economics, Business, Law, Humanities, Arts, Social Sciences
Thursday 7 June	Creative and Performing Arts
Tuesday 14 June	Economics, Business, Humanities, Social Sciences, and Education

Swinburne University Industry Partners

For over 50 years, Swinburne University has been working closely with industry to create strong and mutually beneficial partnerships. From multi-national corporations to small businesses, start-ups to not-for-profit organisations, Swinburne offers a wide-range of partnership opportunities in almost every industry sector.

Browse some of the organisations that have benefited by opening their doors to Swinburne students at Swinburne University Industry Partners.

Swinburne has particularly partnered with several companies with diverse interests in the ***medical technology space*** - **Biodevices Industry Partners**

Snapshot of the University of Queensland (UQ) in 2018

- UQ is a one of Australia's leading research and teaching institutions
- UQ is one of only three Australian members of the global Universitas 21
- UQ is consistently ranked well inside the top 100 of more than 10,000 universities worldwide - International Rankings
- UQ is located in and around Brisbane, and the university has teaching and research sites throughout Queensland, and its major campuses are at St Lucia, Gatton and Herston - Campuses & Locations
- There are six faculties at UQ, which are responsible for academic programs and decisions regarding a student's pursuit of their academic program - Faculties
- At UQ students can choose from an extensive range of undergraduate programs, many of which can be "customised" by major – and minor – fields of study. Programs are organised through schools and faculties, but sometimes a student can "mix and match" between them with electives and dual degrees - Undergraduate Courses & Programs
- UQ has a diverse student exchange program, and students can study overseas for up to one year while gaining credit towards their UQ degree. UQ has 200 exchange partners in 40 countries - UQ Abroad
- Students keen on learning another language can enrol in one of over 80 different courses through UQ's Institute of Modern Languages - Institute of Modern Languages
- There are over 190 clubs and societies at UQ, all aimed at expand a student's social life, playing an important role in the UQ student experience - Clubs and Societies
- Students at UQ are encouraged to undertake experiences beyond the classroom during their degree through the UQ Advantage Program. They participate in a range of co-curricular activities and workshops that help them gain a better understanding of the world, and develop key competencies that employers value. It is a great way to get recognition for "non-academic" experiences such as student exchange, mentoring, and undergraduate research programs - UQ Advantage Program
- UQ has a dedicated website designed to for future students to find answers to all the questions they might have about studying at UQ - UQ Answers
- UQ has some excellent facilities including -
    * a state-of-the-art multi-purpose learning space for first-year engineering students called the Engineering Learning Centre - Engineering Learning Centre
    * the School of Veterinary Science complex - Veterinary Science
    * the Pharmacy Australia Centre of Excellence (PACE) precinct which houses the School of Pharmacy - Pharmacy
- UQ has 10 residential colleges - Accommodation
- UQ offers a range of scholarship options to make university study more affordable, ranging in value up to $12,000 per year for the VC Scholarship - Scholarships

Engineering Degrees in Victoria

Listed below are over 30 engineering degrees offered at most universities in Victoria. Students should note that unless otherwise indicated* all engineering degrees require at the very least *English or EAL, and Maths: Mathematical Methods (CAS).* Courses with an * also require *Chemistry or Physics.*

For a comprehensive list of all courses, their prerequisites and double degrees on offer, visit VTAC

INSTITUTION	COURSE	MAJOR STUDIES	ATAR 2018
DEAKIN M – Melbourne G – Waurn Ponds	**Civil**	Civil engineering management, Computer-aided design (CAD), Construction, Engineering (civil), Engineering (fluid), Engineering design, Geotechnical engineering, Materials engineering, Structural engineering, Transportation, Water resources engineering.	71.65 (M) 65.65 (G)
	Electrical & Electronics	Circuits and electronics, Computer-aided design (CAD), Control systems, Data communications, Electrical and electronic engineering and technology, Electrical engineering, Electronic engineering, Energy efficiency and demand management, PLC and SCADA, Power system protection, Power systems, Renewable energy, Smart distributions and transmission systems, Smart grid.	71.10 (M) 71.85 (G)
	Environmental	Environmental engineering, Environmental protection and management, Hydrology, Marine ecosystems, Sustainable infrastructure engineering, Waste management, Water engineering.	73.50 (G)
	Mechanical	Computer-aided design (CAD), Control systems, Engineering (fluid), Engineering (mechanical), Materials engineering, Mechanical design, Systems design.	69.60 (M) 65.00 (G)
	Mechatronics	3D printing, Advanced manufacturing, Artificial intelligence, Circuits and electronics, Computer-aided design (CAD), Control systems, Data communications, Electrical and electronic engineering and technology, Electrical engineering, Electronic engineering, Engineering (mechanical), Engineering (mechatronic), Mechanical design, Mechatronics design, Robotics, Virtual and augmented reality.	70.05 (M) 69.95 (G)
	Software	Artificial intelligence, Computer software, Cyber security, Cyber-physical systems, Data analytics, Data capturing technologies, Data structures and algorithms, Database programming, Embedded systems development, Internet-of-Things, Object-oriented programming, Programming, Robotics Applications, Robotics software, Software architecture, Software design, Software engineering, Software testing, Usability and user experience engineering, Web application development.	66.15 (M)
FEDERATION G – Gippsland B –Ballarat	**Civil**	Civil Engineering, Construction Management, Environmental Engineering, Geotechnical Engineering, Structural Engineering, Transport Engineering, Water Resources Engineering.	n/a (G) n/a (B)
	Mechanical	Automotive and Energy Efficiency, Design Engineering, Manufacturing Engineering, Mechanical Engineering, Mechanical and Industrial Engineering Technology, Mechanics, Robotics, Vibration and Machine Dynamics.	n/a (B)
	Mechatronic Systems	Computing Engineering, Electronics Engineering, Engineering Management, Manufacturing, Mechanical Engineering, Mechatronics, Robotics, Sensing and Artificial Intelligence, Systems Control.	n/a (G)
	Mining	Drilling and Blasting, Mine Power and Services, Mine Ventilation, Mineral Deposit Evaluation and Processing, Mining Engineering, Rock Fragmentation, Rock Mechanics, Surface Mining Operations and Equipment, Underground Production Systems.	n/a (B)
LA TROBE M – Melbourne B – Bendigo	**Civil**	Civil engineering.	60.55 (M) 61.70 (B)
	Industrial Engineering	Engineering (industrial), Engineering design, Engineering enterprise, Engineering industry 4.0, Engineering innovation, Project management, Systems engineering.	60.05 (M) n/a (B)
MONASH Cl – Clayton	**Aerospace ***	Aerodynamics, Aeronautical, Aerospace Engineering, Avionics, Engineering.	91.10 (Cl)
	Engineering *	Aerospace engineering, Chemical engineering, Civil engineering, Electrical and computer systems engineering, Engineering, Environmental engineering, Geological engineering, Materials engineering, Mechanical engineering, Mechatronics engineering, Mining engineering, Oil and gas engineering, Renewable energy engineering, Software engineering.	91.05 (Cl)
	Software *	Engineering, Software engineering.	91.75 (Cl)
RMIT C – City C/B – City & Bundoora	**Advanced Manufacturing & Mechatronics**	Advanced manufacturing processes, Advanced robotics, Automatic control systems, Autonomous systems, Design for assembly and automation, Embedded systems, Engineering computing, Engineering mechanics, Manufacturing systems, Manufacturing systems modelling, Mechatronic design.	80.00 (C/B)
	Aerospace	Aerodynamics, Aerospace engineering, Aerospace maintenance, Aerospace science and spacecraft, Aircraft design, Aircraft systems, Aviation, Computer modelling, Mechanics (applied), Mechanics (flight), Mechanics (fluid), Mechanics (solids), Mechanics (structural).	85.05 (C/B)
	Automotive	Computer-aided engineering and design, Dynamics and control, Energy conservation and renewable energy, Engineering mathematics, Fluid mechanics, Industrial aerodynamics and computational fluid dynamics, Mechanics of machines, Mechatronics, Solid mechanics and materials, Thermodynamics, Vehicle handling and control, Vehicle noise and vibration, Vehicle power system and vehicle body design.	80.90 (C/B)
	Biomedical *Any maths*	Bioinformatics, Biomedical Signal and Image processing, Biomedical instrumentation, Cell Biology, Chemistry, Circuit Theory, Engineering biomechanics and biomaterials, Human physiology, Implant and Rehab Engineering, Physics, Programming.	85.55 (C)
	Chemical *	Chemical sciences, Environmental, Food science and biotechnology, Metallurgical, Petroleum, Rheology.	80.00 (C)
	Civil & Infrastructure	Civil engineering management, Computer modelling, Construction management, Engineering (civil), Engineering (environmental), Engineering (geoengineering), Engineering (structural analysis and design), Engineering (transport engineering), Irrigation and water management, Mechanics (structural), Project management, Risk analysis and management, Roads and road design, Software applications, Water quality management, Water resources engineering.	85.05 (C/B)

RMIT C – City C/B – City & Bundoora	**Computer & Network**	Computer and network security, Computer engineering, Computer networks, Embedded systems, Internet communications, Microprocessor, Microprocessor control systems, Mobile and cloud networks and computing, Multimedia engineering (audio), Multimedia engineering (image), Multimedia engineering (speech), Multimedia engineering (video signal processing), Network engineering, Network infrastructure design and performance, Network management and software-defined networking, Reconfigurable processors and devices, Signal and systems, Telecommunications (systems and networks), Wireless technologies.	80.35 (C)
	Electrical	Control systems, Electrical distribution, Electrical energy conversion, Electrical engineering, Electrical transmission, Industrial automation, Microprocessor control systems.	80.00 (C)
	Electrical & Electronic	Circuits and electronics, Communication systems, Computer engineering, Computer networks, Control systems, Digital and analogue electronics, Electrical systems, Electronic systems, Photonics, Signal processing, Wireless technologies.	80.60 (C)
	Environmental	Chemical engineering, Civil engineering, Environmental analysis, Environmental engineering, Geology, Hydrogeology, Hydrology, Infrastructure management, Land contamination, Pollution control, Process engineering, Sustainability, Transport engineering, Urban systems, Waste water treatment, Water engineering, Water management.	81.35 (C/B)
	Mechanical	Computer-aided engineering and design, Dynamics and control, Energy conservation and renewable energy, Engineering and society, Engineering mathematics, Fluid mechanics, Industrial aerodynamics and computational fluid dynamics, Manufacturing, Mechanical design, Mechanics of machines, Mechatronics, Professional research project, Solid mechanics and materials, Thermodynamics.	80.30 (C/B)
	Software Engineering	Algorithms and data structures, Artificial intelligence, Computer architecture, Computer operating systems, Database systems, Industrial collaboration and experience, Networks and data communications, Object-oriented design, Object-oriented modelling, Object-oriented programming, Object-oriented software engineering, Operating systems, Problem solving, Programming, Programming (C), Programming (Java), Project management, Software development, Software engineering, Software engineering practices.	90.05 (C)
	Sustainable Systems	Advanced life cycle and systems assessment, Chemistry fundamentals, Computer-aided design, Electrical energy systems, Engineering Capstone Project, Engineering Computing, Fluid mechanics, Intelligent transport systems, Manufacturing management, Mathematics, Statistics, Sustainable energy systems, Sustainable engineering logistics systems, Sustainable engineering materials, Sustainable system design, Sustainable transport systems, Systems engineering principles, Thermodynamics.	80.05 (C/B)
	Telecommunications	Antennas, Circuits and electronics, Communication systems and theories, Digital signal processing, Electronic systems, Electronics, Engineering (communication), Engineering (electronics), Engineering (telecommunications), Engineering design, Fibre optical technology, Industrial and Defence radar technologies, Internet Engineering, Modern network engineering, Network security, Optoelectronics and Photonics, Satellite communications, Telecommunications (transmission systems), Wireless and Mobile communications, Wireless technologies.	n/a (C)
SWINBURNE H – Hawthorn * Professional Degree # Any maths required R.C. – Range of Criteria used for selection	**Engineering**	Architectural engineering, Biomedical engineering, Civil engineering, Construction engineering, Electrical and electronic engineering, Mechanical engineering, Product design engineering, Robotics and mechatronics, Software engineering, Telecommunications engineering.	76.10 (H) 85.00 (H) *
	Engineering Practice #	Biomedical engineering, Civil engineering, Construction engineering, Electrical and electronic engineering, Industry 4.0, Internet of things and people, Mechanical engineering, Product design engineering, Products designed for people, Robotics and mechatronics, Smart cities, Software engineering, Telecommunications engineering.	R.C. (H)
VICTORIA FP – Footscray Park # Engineering degrees at VU require <u>any maths</u>	**Architectural #**	Architecture, Building (design), Building (technology), Building law and building practice, Computer-aided design, Construction, Design, Engineering, Engineering (architectural), Engineering (electrical), Engineering (mechanical), Environment and sustainability, Environmental comfort and life safety design, Green building design, Management, Sustainable building design.	n/a (FP)
	Civil #	Civil engineering, Computer-aided design, Construction, Construction management, Environmental engineering, Geosciences, Hydraulics and hydrology, Land and water management, Management, Project management, Roads and road design, Structural engineering and design, Surveying, Sustainable development, Transport and traffic engineering, Water resources engineering.	n/a (FP)
	Electrical & Electronic #	Digital and analogue electronics, Electrical engineering management, Engineering (communication), Engineering (computer systems), Engineering (computer), Engineering (electrical generation), Engineering (electrical), Engineering (electronics), Engineering design, Microelectronics, Microprocessors, Telecommunications.	n/a (FP)
	Electrical & Sports #	Actuators, Biomechanics, Data analysis, Electrical and electronic engineering, Sensors, Software development, Wearable electronics.	n/a (FP)
	Mechanical #	Automotive design, Computer-aided design, Design (product development), Engineering, Engineering (manufacturing), Engineering (mechanical), Industrial engineering, Manufacturing management, Mechanical design, Mechanical engineering, Mechanics (fluid mechanics), Mechanics (solid mechanics), Production processes, Project management.	n/a (FP)