

INSTITUTION	COURSE	MAJOR STUDIES IN 2020	ATAR (based on last years offers)
DEAKIN M – Melbourne G – Waurn Ponds	Civil	Civil engineering management, Computer-aided design (CAD), Construction, Engineering, Engineering (civil), Engineering (fluid), Engineering design, Geotechnical engineering, Materials engineering, Structural engineering, Transportation, Water resources engineering.	70.10 (M) 64.05 (G)
	Electrical & Electronics	Circuits and electronics, Control systems, Data communications, Electrical and electronic engineering and technology, Electrical engineering, Electronic engineering, Embedded systems, Energy efficiency and demand management, Engineering, PLC and SCADA, Power system protection, Power systems, Renewable energy, Smart distributions and transmission systems, Smart grid, Systems and signals.	75.10 (M) 69.00 (G)
	Environmental	Ecology, Engineering, Environmental chemistry, Environmental engineering, Environmental protection and management, Hydrology, Sustainable infrastructure engineering, Waste management, Water engineering.	69.00 (G)
	Mechanical	Computer-aided design (CAD), Computer-aided engineering (CAE), Control systems, Dynamics, Engineering, Engineering (fluid), Engineering (mechanical), Engineering design, Engineering mathematics, Engineering modelling, Fluid mechanics, Machine design, Materials engineering, Mechanical design, Product development, Project management, Solid mechanics, Stress analysis, Structural engineering, Thermodynamics.	71.80 (M) 61.75 (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, Engineering (mechanical), Engineering (mechatronic), Mechanical design, Mechatronics design, Robotics, Virtual and augmented reality.	71.75 (M) 67.40 (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.	64.40 (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)
	Electrical & Information Engineering	Digital Communication Principles, Digital Logic and Design, Electrical Power Distribution Engineering, Electromechanical Energy Conversion, Micro-grid and Energy Storage Systems, Power Electronic Applications to Renewable Energy Systems, Power Electronics, Power System Analysis, Power System Protection, Principles of Renewable Energy Sources, Signals and Systems.	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.	65.10 (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.	66.40 (M) 72.75 (B)
	Electrical & Electronic	Electrical engineering, Electronic engineering.	71.75 (M)
	Industrial Engineering	Engineering (industrial), Engineering design, Engineering enterprise, Engineering industry 4.0, Engineering innovation, Project management, Systems engineering.	67.95 (M) 70.80 (B)
MONASH Cl – Clayton	Aerospace ^	Aerodynamics, Aeronautical, Aerospace Engineering, Avionics, Engineering.	92.30 (Cl)
	Engineering ^	Aerospace engineering, Chemical engineering, Civil engineering, Electrical and computer systems engineering, Engineering, Environmental engineering, Materials engineering, Mechanical engineering, Resources engineering, Robotics and Mechatronics Engineering, Software engineering.	92.30 (Cl)
	Software ^	Engineering, Software engineering.	93.60 (Cl)
RMIT C – City C/B – City & Bundoora	Advanced Manufacturing & Mechatronics	Advanced Manufacturing Engineering, Engineering, Mechatronics Engineering.	85.55 (C/B)
	Aerospace	Aerospace engineering, Engineering.	80.30 (C/B)

RMIT C – City C/B – City & Bundoora *Any maths	Automotive	Automotive Engineering, Engineering.	82.70 (C/B)
	Biomedical *	Biomaterials, Biomechanics, Biomedical Electronics, Biomedical Engineering, Engineering, Lab-on-a-chip technology, Micro-Nano Systems.	80.00 (C)
	Chemical ^	Chemical Engineering, Engineering, Environmental Engineering, Minerals and Metallurgical Processing, Water Treatment.	80.50 (C)
	Civil & Infrastructure	Civil Engineering, Civil and Infrastructure Engineering, Engineering, Infrastructure Engineering.	80.30 (C/B)
	Computer & Network	Computer and Network Engineering, Embedded Systems, Engineering, Network Engineering, Signal Processing, Systems Engineering and Applications.	80.40 (C)
	Electrical	Control Automation, Electrical engineering, Electronics and Systems, Energy Conversion, Engineering, Power Systems.	80.15 (C)
	Electrical & Electronic	Applications, Computer Network Engineering, Control Automation, Defence Systems, Digital Signal Processing and Applications, Electrical Engineering, Electronic Devices and Systems, Electronic Engineering, Electronic Sensors and Controllers, Electronics and Systems, Embedded Systems, Energy Conversion, Engineering, Network Engineering, Network Security, Power Systems, Signal Processing, Systems Engineering, Wireless Communications.	80.25 (C)
	Engineering *	Advanced manufacturing, Aerospace engineering, Automotive engineering, Biomedical engineering, Chemical engineering, Civil engineering, Computer engineering, Electrical engineering, Electronic engineering, Environmental engineering, Mechanical engineering, Mechatronics engineering, Sustainable engineering, Telecommunications engineering.	80.05 (C)
	Environmental	Chemical Engineering, Civil Infrastructure Engineering, Engineering, Environmental Engineering, Hydrogeology, Water Engineering.	80.55 (C/B)
	Mechanical	Engineering, Mechanical Engineering.	80.40 (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.	83.00 (C)
	Sustainable Systems	Engineering, Sustainable systems engineering.	83.00 (C/B)
	Engineering Technology * (Associated Degree)	Advanced manufacturing, Aerospace, Aircraft systems, Civil engineering, Communication systems, Computer application, Computer-aided design (CAD), Electrical engineering, Electronics, Engineering (materials), Engineering (structural analysis and design), Industrial studies, Mechanical engineering, Mechanics (solids), Mechanics (thermo-fluids), Microprocessor control systems, Network security, Process control, Telecommunications (systems and network).	41.55 (C)
	Telecommunications	Defence systems, Electronic Devices and Systems, Electronic Sensors and Controllers, Engineering, Telecommunications Engineering, Wireless Communications.	n/a (C)
SWINBURNE H – Hawthorn @ Professional Degree *Any maths	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.	75.00 (H) 83.00 (H) @
	Engineering * (Associated Degree)	Calculus and applications, Computer-aided drafting, Digital and data systems, Electronics and electromagnetism, Energy and motion, Engineering design and innovation, Engineering materials, Linear algebra and applications, Mechanics of structures, Project management practices.	59.50 (H)
VICTORIA FP – Footscray Park # Engineering degrees at VU require <u>any maths</u>	Architectural #	Architectural Engineering, Architecture.	n/a (FP)
	Civil #	Engineering (Civil engineering).	n/a (FP)
	Electrical & Electronic #	Engineering (Electrical and Electronic Engineering).	n/a (FP)
	Mechanical #	Engineering (Mechanical Engineering).	n/a (FP)