



Issue No. 3

Friday 10 March 2023

Welcome to this edition of the Careers Newsletter. I look forward to another great year of supporting the students in their journey of career exploration and making important decisions regarding post-secondary options. I am available all week and am more than happy to assist students and parents. I can be contacted via email on helen.madden@pvcc.vic.edu.au to make an appointment.

Don't forget also to check out our PVCC Careers website for important information for students and parents. You can find our site at: <https://careers.pvcc.vic.edu.au>

Items in the *Career News* include –

- Dates to Diarise in Term 1
- Studying the Bachelor of Engineering (Hons) at RMIT
- Information session on applying to Universities in the USA
- Careers in the Navy
- Cyber Security courses in Victoria
- Gap Year opportunities
- Architecture and Design courses at the University of Melbourne
- Differences between Physiotherapists, Osteopaths and Chiropractors?
- Animation and Gaming design courses in Victoria.



Dates to Diarise in Term 1

- Year 10 – Students to finalise Work Experience placements – End of Term 1.
- ADF Gap Year – Applications open in March
- Year 12 UCAT applications – Registrations and Bookings open 1st March



Box Hill Institute Talk & Tour

Box Hill Institute's *Talk & Tours* are back! Students keen on learning more about what one can study at Box Hill Institute are invited to register and visit its campuses to discuss with teachers and course experts everything they want to know about how Box Hill Institute can help them become a professional in some of Victoria's most in-demand careers.

Students will also have a rare chance to tour the on-campus labs, studios, workshops, retail outlets, restaurants and.

By attending on-campus, students will also have the opportunity to win a new Student Study Pack containing Apple goodies valued at over \$4K!

Date: Tuesday 28 March 2023
Campus: Box Hill Campus
Time: 4.00pm – 7.00pm

Date: Thursday 30 March 2023
Campus: Lilydale Campus
Time: 4.00pm – 7.00pm

Register for one or both events at [Box Hill Talk & Tours 2023](#).



Studying the Bachelor of Engineering (Honours) at RMIT

The Bachelor of Engineering (Honours) degree allows students the opportunity to explore the fundamentals of engineering — science, mathematics, design, and more — **before** selecting a specialisation.

Students gain a wealth of engineering skills and knowledge, and through their elective subjects are exposed to a range of specialisations.

After their first year of study, students will be able to choose which branch of engineering to explore in more depth, including:

- aerospace engineering
- automotive engineering
- biomedical engineering
- civil and infrastructure engineering
- chemical engineering
- computer and network engineering
- electrical, electronic and telecommunications engineering
- environmental engineering
- mechanical engineering
- manufacturing engineering

- mechatronics engineering
- sustainable systems engineering.

RMIT is ranked 10th in the Oceania region for Engineering in 2023.

The VCE prerequisites for entry are Units 3 and 4 with a study score of at least 30 in English (EAL) or at least 25 in English other than EAL, and Units 3 and 4 with a study score of at least 20 in any Mathematics. This course has a guaranteed ATAR of 75.00.

Further information can be found at [Bachelor of Engineering \(Honours\)](#).



Public Information Session

EducationUSA Australia is thrilled to welcome NYU Admissions Counsellors travelling from New York and Abu Dhabi to Melbourne. Year 9 – 12 students interested in finding out more about NYU, the U.S. Higher Education application process, as well how to receive help in preparing an application, are encouraged to attend.

The session will include the following:

- Introduction to NYU's three-degree granting campuses: New York, Abu Dhabi and Shanghai
- The value of researching university options
- The application process
- Application and financial aid deadlines
- Discussion around what a selective institution is and what applicants should consider when applying to U.S. colleges
- How COVID-19 has impacted the application process and college landscape
- The importance of academic rigor
- Explanation regarding what extracurricular activities mean to admissions officers
- Q & A

Students can attend this session in-person or virtually and registration is required for all attendees.

Date: Tuesday 21 March 2023

Time: 6.00pm – 7.30pm

Location: Trinity Grammar School, Arnold Hall, 40 Charles Street in Kew 3101

Register at [Learn about U.S. Colleges](#) no later than Tuesday 21 March at 3.00pm.



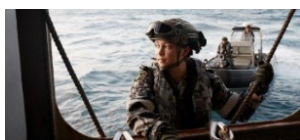
Letz Live Gap Year Opportunities

Have the time of your life by taking a Gap Year after school or live and breathe a new city with a working holiday. Either way, get out there and live in the real world!

Applications for 2024 Gap Year programs are now open with applications closing on 9 April 2023.

[Letz Live](#) offers [Gap Year](#) and [Working Holiday](#) opportunities in [Australia](#), [New Zealand](#), [United Kingdom](#), [Thailand](#) or the [United States of America](#).

Year 12 students are encouraged to browse the links provided to determine if any of the programs on offer appeal.



HMAS Cerberus Open Day – Careers in the Navy

Defence Force Recruiting invites students to explore the Navy at the upcoming Open Day happening at HMAS Cerberus in March. This is a great opportunity to learn more about the *trade, communications, IT & intelligence, or leadership roles* available in the Navy. Students will meet current Navy personnel to receive expert insights and gain a first-hand account of their lives both on base and on board. Students will also learn more about the training and ongoing opportunities for growth and development and see if a career in the Navy is for them.

Even if they aren't thinking about a career in Defence or are unsure of their next steps, the HMAS Cerberus Open Days may provide an exciting future they haven't considered before.

Date: Sunday 19 March 2023

Time: 10:00am - 4:00pm

Location: HMAS Cerberus - Main Entrance, Wilson Avenue HMAS Cerberus

Registrations encouraged but not essential at [HMAS Cerberus Open Day](#).



Cyber Security Courses in Victoria in 2023

One explanation for what cybersecurity might be is that **cyber security** is the protection of internet-connected systems, including hardware, software and data, from cyberattacks. In a computing context, **security** comprises **cyber security** and physical **security** -- both are used by enterprises to protect against unauthorized access to data centers and other computerized systems. **Below is a list of some of these, and students are encouraged to browse [VTAC](#) for a comprehensive list of all courses – including double-degrees – available.**

INSTITUTION	COURSE NAME	VCE PREREQS	MAJOR STUDIES IN 2023
Box Hill Institute	Certificate IV in Cyber Security	n/a, but must successfully complete Year 12	Communication skills and problem solving, Cyber Security essentials, Firewall fundamentals, Incident response, Introduction to threat detection, Networking for Cyber Security technicians, Security Scripting, System Testing tools, Web site Penetration Testing.
Deakin University	Bachelor of Cyber Security	Units 3 and 4: a study score of at least 25 in English (EAL) or at least 20 in English other than EAL.	Access control, Computer and network security, Computing, Cryptography, Data analytics, Database, Digital forensics, Hi-tech crime, Identity management and authentication, Information and communication technology, Information technology, Internet and web, Internet technology and security, Internet-of-things security, Network management and network systems, Network security, Penetration testing, Privacy, Public-key cryptography, Security analytics, Security and risk analysis, Security management, System and software vulnerabilities.
Holmesglen Institute	Certificate IV and Advanced Diploma of Cyber Security	n/a, but must successfully complete Year 12	Advance PEN testing, Australian cyber law, Cloud security, Collecting and analysing data to identify cyber threats and vulnerabilities, Cyber Security Industry Project, Cyber ethics and workplace legislation, Data forensics, Data threat analysis, Developing risk mitigation policies, Introduction to Pen Testing, Intrusion testing, Managing System Security, Network Security firewall configuration, Networking skills for Cyber Security, Programming skills for Cyber Security, Risk Management, Securing Websites, Securing virtual environments, Security monitoring & Incident response, Working and communicating in a Cyber Security Operations Centre.
La Trobe University	Bachelor of Cybersecurity	Units 3 and 4: a study score of at least 25 in English (EAL) or at least 20 in English other than EAL.	Cybersecurity.
Melbourne Polytechnic	Certificate IV in Cyber Security	n/a, but must successfully complete Year 12	IOT scripting using Python, Networking concepts and protocols, Penetration testing, Securing a networked PC, Server and Network security.
RMIT University	Diploma of Information Technology (Cybersecurity)	n/a, but must successfully complete Year 12	Business Information Systems, Cyber Security, IT Project Management, Information Technology, Information systems management, Network Infrastructure, Security Architecture Design, Systems software, Technical support.
Swinburne University	Cert IV in Cyber Security	n/a, but must successfully complete Year 12	Automate processes, Develop a cyber security industry project, Install and manage a server, Manage network security, Manage the security infrastructure for the organisation, Monitor and administer security of an ICT system, Secure a networked personal computer, Test concepts and procedures for cyber security, Utilise basic network concepts and protocols required in cyber security, Write script for software applications.

	Bachelor of Computer Science	Units 3 and 4: a study score of at least 25 in English other than EAL or at least 30 in English (EAL).	Cyber security ethics law and policy, IT security, Malware analysis, Network administration, Network routing principles, Network security and resilience, Networks and switching, Programming, Secure remote access networks, Web development.
Victoria University *Not 3/4 Foundation Mathematics	Bachelor of Cybersecurity	Units 3 and 4: a study score of at least 25 in English (EAL) or at least 20 in English other than EAL; Units 3 and 4: a study score of at least 20 in any Mathematics*	Cyber security.



Snapshot of The Australian National University (ANU) in 2023

- Although the main campus is based in Canberra in the ACT, ANU is Australia's only national university. It has [campuses](#) in ACT, NSW, and the NT.
- ANU ranks 1st in Australia and 30th in the world in the [QS World University Rankings 2023](#) and ANU counting six Nobel Laureates among its staff and alumni. It also has one of the highest average academic staff to student ratios among Australia's leading universities according to the Good Universities Guide.
- ANU has seven academic colleges:
 - [College of Arts and Social Sciences](#)
 - [College of Asia and The Pacific](#)
 - [College of Business and Economics](#)
 - [College of Engineering and Computer Science](#)
 - [College of Health and Medicine](#)
 - [College of Law](#)
 - [College of Science](#)
- Students wishing to [study](#) at ANU can choose from a range of disciplines and degree structures, from single, double and research undergraduate and postgraduate programs.
- At ANU the [Doctor of Medicine and Surgery \(MChD\)](#) is a postgraduate, four-year degree - students cannot study medicine as an undergraduate at ANU. Further information on the admissions process and how to apply is available on the [ANU Medical School](#) website.

Students looking for an undergraduate pathway to medicine without sitting the GAMSAT, might like to consider the [Bachelor of Health Science](#).
- ANU students are encouraged to enhance their learning experience and take advantage of national and international [global study opportunities](#) which can count credit towards their degree.
- Prospective and current ANU student have access to many [scholarships](#) to support with the cost of their studies.
- ANU offers a broad range of [accommodation](#) choices for students, within a diverse and vibrant community.

News from ANU

➤ Applications for 2024 Entry

Current domestic Year 12 students who intend applying directly to ANU for undergraduate study in 2024 are advised that direct applications open on Wednesday 1 March 2023, and close on Monday 15 May 2023.

Students can start their applications at any time and log back in, as needed, to complete the process.

Students will need to include their [co-curricular activities](#) with appropriate supporting documentation, as well as complete a [Year 11 Results Form](#).

Students are advised to read through the [Application Information](#) before applying at [Applying to ANU](#).

➤ Open Day 2023

ANU will be hosting its Open Day in mid-March. Students and parents will have the opportunity to *tour the campus and accommodation, learn about the academic colleges, degree programs and support services, and chat to current students about campus life and their ANU experiences.*

Date: Saturday 18 March 2023

Time: 9.00am – 3.00pm

Students are invited to register now for the event, in order to plan their day. Register [here](#).

Sport, Physical and Outdoor Education

If you're thinking about a career in community sport and recreation, or if you're looking for a pathway into Health and PE (HPE) teaching, this degree is for you.

During the [Bachelor of Sport, Physical and Outdoor Education](#) degree, students learn *leadership, teaching and people skills* and put these into practice in a variety of settings.

Subjects studied are a blend of hands-on and theoretical work, and *include outdoor leadership, fundamental movement, exercise physiology and fitness, swimming and water safety, biomechanics, outdoor living and travel skills and human development and nutrition.*

This degree provides a strong foundation for a rewarding career in the sport and recreation and outdoor education industries.

The Bachelor of Sport, Physical and Outdoor Education degree offers two options to becoming a registered Health and PE teacher:

- If after completing first year, students have maintained a good academic standard, they may be eligible to apply for a transfer into second year of the [Bachelor of Secondary Education \(Health and Physical Education Teaching\)](#).
- Alternatively, students may opt to complete this degree and then continue into a Master of Teaching in either [secondary](#) or [primary](#) teaching, and qualify as a Victorian Institute of Teaching registered teacher within 4.5 years.



Studying the Built Environment at Melbourne

Be part of the next generation of built environment thinkers and doers, learning how to reimagine the world around us. Develop possible futures through ethical, experimental and engaged design practice, and shape the lived experience of communities, places and environments.

At the University of Melbourne, students can learn how *architecture, landscape architecture, urban design, urban planning, property and construction* can combine to address our shared challenges of today and tomorrow.

- Students get the opportunity to collaborate across the various disciplines of the built environment.
- Researchers and industry practitioners teach the programs and are leaders in public conversations about our cities and regions, shaping policy development and transforming Australian practice.
- Melbourne, frequently ranked as the world's most liveable city, is a fantastic city in which to become and be an expert in the built environment fields.

Students are encouraged to visit [Built Environment at Melbourne](#)

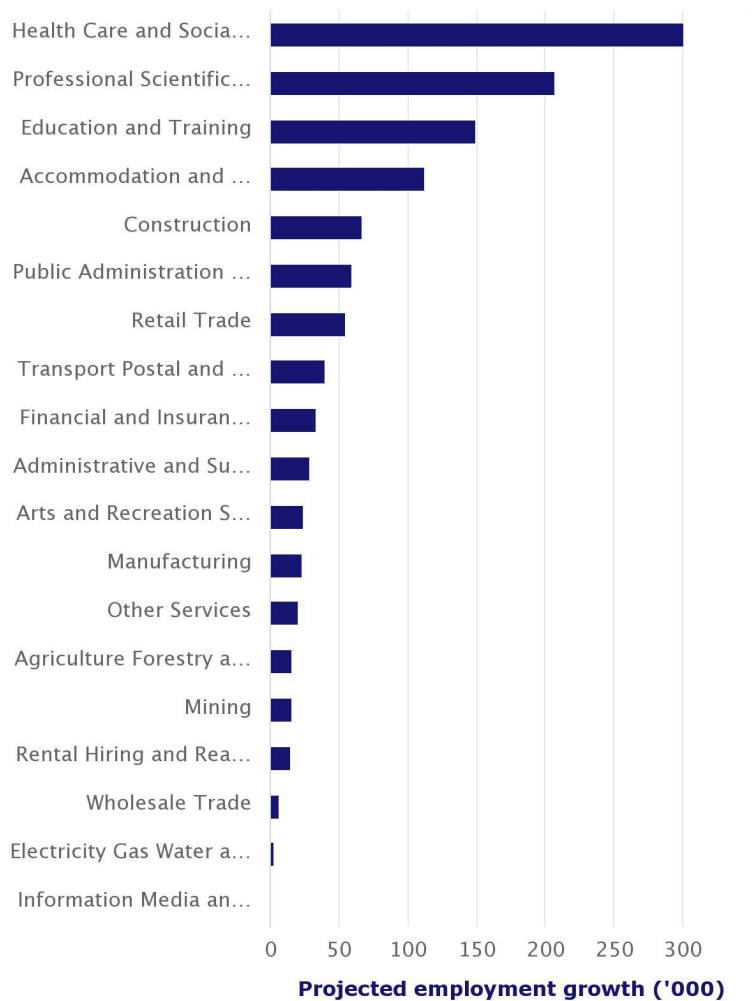


Where will the Jobs be in 2026?

It is likely that 91.7% of new jobs will require post-school education, and more than three-fifths of the total projected employment growth will occur in high skill level jobs.

The four services industries projected to provide more than three-fifths of the total projected employment growth are:

- [Health care and social assistance](#)
- [Accommodation and food services](#)
- [Professional, scientific and technical services](#)
- [Education and training](#)



Below is a brief table indicating Industry - Employment Projections which suggest we will see the highest employment growth in these specific areas:

Software and Application Programmers
Database and Systems Administrators, and ICT Security Specialists
Accountants
Management and Organisation Analysts
Solicitors
General Clerks
Human Resources Managers
Aged and Disability Carers
Registered Nurses
Welfare Support Workers

For an informative browse of employment projections and labour market insights, visit [Employment Projections | Labour Market Insights.](#)



Physiotherapist, Chiropractor, Osteopath and Myotherapist

A frequently asked question is what the difference is between the roles of physiotherapists, chiropractors, osteopaths, and Myotherapists.

So, what is the difference? In November 2020 an article by Charlotte Ganderton and Matthew King was published on the [ABC website](#) addressing this very topic, and the fact that all four types of therapy come highly recommended to assist people in managing their aches and pains. To sum up the article –

In Australia, **physiotherapists**, **osteopaths** and **chiropractors** have extensive university training and are registered with the Australian Health Practitioner Regulation Agency ([AHPRA](#)). Myotherapists complete an advanced diploma or bachelor's degree in myotherapy or "musculoskeletal therapy" but are not registered with AHPRA.

The article goes on to state that a [physiotherapist](#) *assesses your problem, provides a diagnosis, and helps you understand what's wrong while considering your general health, activities, and lifestyle. They treat your complaint with a variety of "active" therapies, such as exercise programs and hydrotherapy.*

A [chiropractor](#) *works on the diagnosis, treatment and prevention of mechanical disorders of the muscles, ligaments, tendons, bones and joints, and the effect on the nervous system. They have an emphasis on passive manual treatments, including joint and soft-tissue manipulation, and spinal adjustments. They may also prescribe exercises to help you rehabilitate from your condition as well as provide dietary advice.*

An [osteopath](#) *focuses on the muscular and nervous systems, assessing the structure of the body to determine its impact on function. Treatment involves a combination of active and passive therapies, including joint manipulation and mobilisation, massage, as well as postural advice and exercise programs.*

Finally, a [myotherapist](#) *works to assist your aches and pains by focusing on the muscles and joints. They offer a range of mostly "hands-on" treatments including dry needling, massage, and joint mobilisation, but can also prescribe exercises.*

Students can access the full article at [Physiotherapist, chiropractor, osteopath and myotherapist: what's the difference and which one should I visit?](#)



Animation & Gaming Degrees in Victoria in 2023

Animation and games design courses offer students a range of opportunities to be exposed to, and develop their skills in, subjects such as *computer coding, computer programming, broad IT skills, simulation, and modelling, computer-based 2D and 3D, interactive information design, and virtual environments*, to name but a few. Below is a list of some undergraduate degrees offered at Victorian Universities.

For a comprehensive list of courses (including the many double-degree options) on offer at Victorian universities, TAFEs, and Private Providers, visit [VTAC](https://www.vtac.edu.au).

INSTITUTION	COURSE NAME	VCE PREREQ'S	MAJOR STUDIES IN 2023
DEAKIN	Film, Television & Animation	Units 3 and 4: a study score of at least 25 in English (EAL) or at least 20 in English other than EAL.	Animation (major only), Animation and motion graphic (minor only), Film studies (minor only), Producing screen content, Screen content production (minor only), Screen production (major only), Scriptwriting (minor only), Visual effects and virtual production (minor only).
MONASH	Media	Units 3 and 4: a study score of at least 27 in English (EAL) or at least 25 in English other than EAL.	Animation, Automotive design, Collaborative design, Communication design, Computer-aided design (CAD), Design, Design theory, Digital media, Furniture design, Graphic design, Illustration, Industrial design, Interactive design, Materials technology, Product design and development, Spatial design, Transportation design, Visual communication, Web design.
RMIT	Animation and Interactive Media	Units 3 and 4: a study score of at least 30 in English (EAL) or at least 25 in English other than EAL.	2D animation, 3D animation, Animation, Animation design and production, Computer animation, Concept art, Design, Digital arts, Illustration, Imaging and sound, Motion design, Projection mapping, Visual effects.
	Games Design	Units 3 and 4: a study score of at least 30 in English (EAL) or at least 25 in English other than EAL.	3D design, Arts (contemporary), Digital art and design, Entrepreneurship, Games design, Games development, Games programming, Games technology, Graphic design.
SWINBURNE	Animation	Units 3 and 4: a study score of at least 30 in English (EAL) or at least 25 in English other than EAL.	2D 3D and Stop-motion animation, Animation history and theory, Character and environment design, Character locomotion and performance, Conceptual sketching and life-drawing, Human and animal anatomy, Producing and production management, Screenwriting, Sound design, Storyboarding and narrative development.
	Games and Interactivity	Units 3 and 4: a study score of at least 30 in English (EAL) or at least 25 in English other than EAL.	3D modelling and animation, Audio and video production, Game design, Games development, Games technology, Narrative design, User experience design.
	Games and Interactivity/Animation	Units 3 and 4: a study score of at least 25 in English other than EAL or at least 30 in English (EAL).	2D and 3D production techniques for animation, 3D modelling for objects and environments, Acting for animation, Action analysis and locomotion, Behaviour and motivation in games, Character and environment design, Character animation, Development and pre-production, Digital game prototyping, Genre and the moving image, History of animation, Pervasive game design, Physics of games and animation, Principles of game design, Production and post-production, Production management for animation, Screen writing, Sound design and acquisition, User-centred design and evaluation, Writing and directing for animation, Writing for interactive narratives.
VICTORIA UNIVERSITY	Animation & Visual Effects	Units 3 and 4: a study score of at least 25 in English (EAL) or at least 20 in English other than EAL.	Animation, Visual effects.



Snapshot of Deakin University in 2023

- Deakin University is the 6th largest university in Australia the has over 66 000 students across its four campuses across Melbourne, Geelong, and Warrnambool, and one being its Cloud Campus - [Deakin Locations](#)
- Ranked 266 in the prestigious [QS World Rankings](#) after first entering the top 300 a few years ago; ranked at #31 in the top 100 universities younger than 50 years old, and ranked #4 in top universities in Victoria
- Ranked highly for world-class facilities, research, and teaching, as well as employability, innovation, and inclusiveness – browse [About Deakin](#) and [Why Deakin](#)
- Deakin has maintained the highest level of overall student satisfaction among Victorian universities for more than ten years running
- Deakin's School of Exercise and Nutrition Sciences is a world-leading sports science school, and the School is ranked #1 in the [Shanghai Ranking's Global Ranking of Sport Science Schools and Departments](#)
- Deakin has four faculties and several schools within each faculty - [Faculties and Schools](#)
- Deakin is one of only 3 Victorian universities offering [graduate medicine](#)
- Deakin offers trimesters and offers a significant number of courses online
- Deakin students have access to a personal study hub which is personalised for each student and provides them with everything they need to know about their course and life at university in order to succeed. In many ways, this is a personalised dashboard - [DeakinSync](#)
- Deakin encourages its students to participate in study abroad and exchange programs as part of their course - [Study Abroad](#)
- Deakin has an excellent reputation for producing highly skilled work-ready, and resilient graduates from a diverse range of backgrounds. The award-winning [DeakinTALENT](#) Careers and Employment Service helps employers to connect with Deakin students across a range of areas. DeakinTALENT *“is your Anytime–Anywhere Careers and Employment Service, available to you for the rest of your working life!”*
- Another excellent resource for Deakin students is **this**. This recourse is packed with inspiration for life, learning and career. Deakin believes the journey is as important as the destination, and whether students are curious about technology, innovation, culture, or personal development, *this*. is the perfect place to ignite imagination and fuel ambition - [this Deakin](#)

