MATRICES 2019

CYBERSECURITY COURSES IN VICTORIA

Wikipedia defines cybersecurity or computer *security as the protection of computer systems from theft or damage to their hardware, software or electronic data, as well as from disruption or misdirection of the services they provide.*

Another explanation is that **cybersecurity** is the protection of internet-connected systems, including hardware, software and data, from cyberattacks. In a computing context, **security** comprises **cybersecurity** and physical **security** -- both are used by enterprises to protect against unauthorized access to data centers and other computerized systems.

Cybersecurity professionals are employed in all industries, and they work hard at ensuring computer data stays out of the wrong hands.
Cybersecurity is taught at numerous universities in Victoria.

Although **Cybersecurity Education** is an American organisation, its website is well-worth a visit just to begin to grasp the broad range of careers in this field.

Cybersecurity is taught at a number of Victorian institutions – either as a course in its own right, or as a major in another courses. **Below is a list of some of these, and students are encouraged to browse VTAC for a comprehensive list of all courses available.**

INSTITUTION	COURSE NAME	VCE PREREQs	MAJOR STUDIES IN 2019
Box Hill Institute	Advanced Diploma of Cyber Security	n/a	Cyber Security Policy and Planning, Forensics, IOT device security, Incident response, Networking and Network Security, Penetration testing, Threat detection and mitigation.
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, Penetration testing, Privacy, Public-key cryptography, Security analytics, Security and management, Security and risk analysis, System and software vulnerabilities.
Holmesglen Institute	Cert IV in Cyber Security	n/a	Collecting and analysing data to identify cyber threats and vulnerabilities, Cyber Security Industry Project, Cyber ethics and workplace legislation, Introduction to Pen Testing, Intrusion testing, Managing System Security, Network Security firewall configuration, Networking skills for Cyber Security, Programming skills for Cyber Security, Securing Websites, Security monitoring & Incident response, Working and communicating in a Cyber Security Operations Centre in an Organisation.
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.	Computer science, Cybersecurity Management, Information technology.
Swinburne University	Cert IV in Cyber Security	n/a	Implement network security infrastructure, Test concepts and procedures, Utilise basic network concepts and protocols, Write script for software applications. Information session