Australian
Data and Cyber
Institute

COURSE PROSPECTUS

2026/2027

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WELCOME

Welcome to the Australian Data and Cyber Institute.

With courses in Data Science and Cyber Security, we offer our students the opportunity to be a part of the next wave of change – what has been called the Fourth Industrial Revolution.

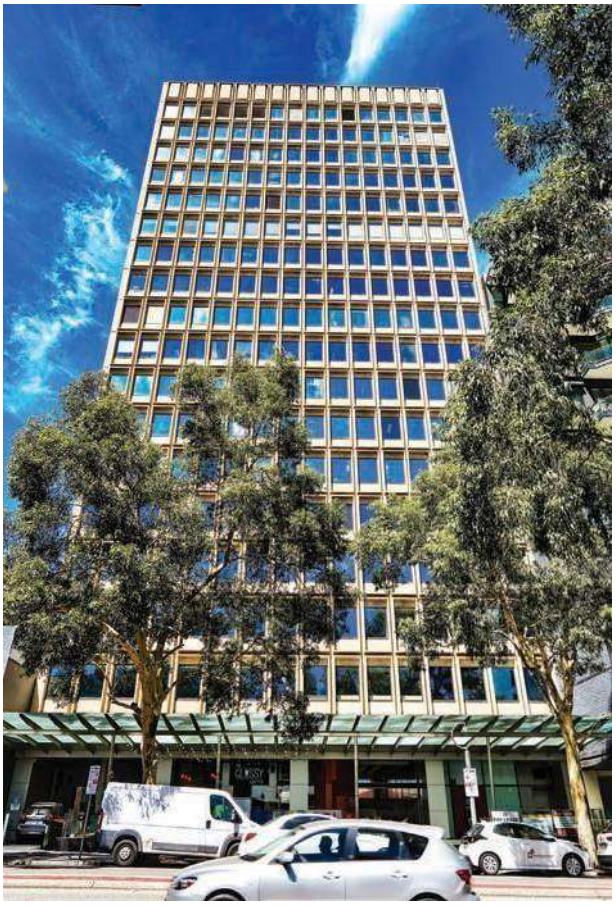
Our courses aim to develop proficient, highly employable graduates who can think critically, communicate effectively, and work efficiently in a team. We provide students with a supportive learning culture and encourage them to develop an entrepreneurial mindset, through the support of dedicated and passionate staff.

At ADCI, we provide our students with a healthy, creative, and nurturing environment that promotes a supportive learning culture, enterprise mindset, and outstanding student experience.

We encourage you to be a part of our bold vision to enable and equip the next generation of future technological innovators and leaders.

Sachin Shah
Chief Executive Officer
Australian Data and Cyber Institute

ABOUT AUSTRALIAN DATA AND CYBER INSTITUTE



ADCI is a registered Institute of Higher Education with the Tertiary Education Quality and Standards Agency (TEQSA) - Provider ID: PRV14332.

ADCI was established in 2023 as an aspiring Australian Higher Education Provider offering degree level courses at the cutting-edge of a new era of technological disruption.

With courses in Data Science and Cyber Security, we offer students the opportunity to be a part of this next wave of change – what has been called the Fourth Industrial Revolution.

ADCI acknowledges the Australian government's recognition of recent risks to cyber security within Australia with a decision to allocate federal funding for 500 new jobs within the Australian Signals Directorate (ASD). This recognition supports the domestic and global demand for skilled graduates in these highly sought after areas well into the future.

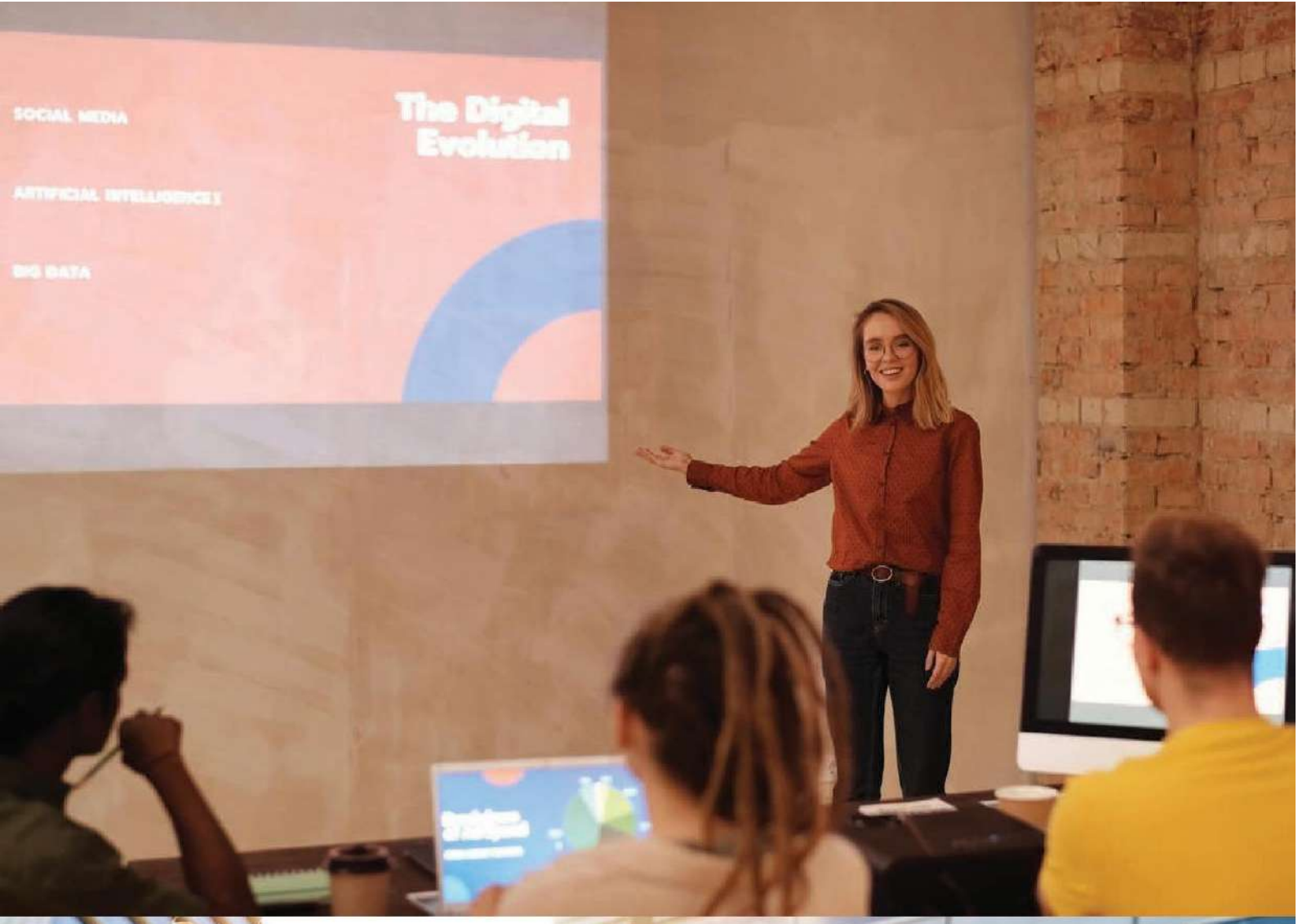
ADCI offers two bachelor's degree level courses accredited by TEQSA:

- Bachelor of Data Science (BDataSc)
  Course ID: CRS1401301
  CRICOS Course Code: 112493J
- Bachelor of Cyber Security (BCybSec)
  Course ID: CRS1401303
  CRICOS Course Code: 112599K

In addition to cutting edge technology courses, ADCI offers a focused and specialised educational and learning experience incorporating the following key features:

- High quality courses are designed to be future-focused, with an emphasis on the changing needs, challenges and opportunities of the digital world.
- Industry collaborations and real-world industry-based projects.
- A favourable academic staff-student ratio to provide outstanding student study support.
- Excellent courseware, tools, and systems.
- Commitment to producing successful, knowledgeable and highly employable graduates who can adapt to the changing needs of business, industry and government in the global digital environment.
- A vibrant, welcoming and cosmopolitan inner-city campus.

ADCI has customised its degree courses to the needs of individuals and employers in the current global environment, and offers cost- effective, yet world-class educational services, to domestic and international students, who seek education in formally recognised qualifications in these high-demand areas.


SOCIAL MEDIA
The Digital Evolution
ARTIFICIAL INTELLIGENCE
BIG DATA

OUR COMMITMENT TO EXCELLENCE

ADCI is committed to our students through a guiding set of values and imparting outstanding Graduate Attributes.

ADCI is committed to providing innovative, in-demand higher education programs designed to prepare you to be job ready, responsible citizens, seeking to advance collective knowledge and understanding through a commitment to free intellectual enquiry and scholarship.

ADCI's Values

Our values are what bind ADCI as an Institution, drive ADCI in achieving our aspirations and guide us in our actions. ADCI is founded on the following core values:

- Excellence in Student-centric Learning
- Scholarship and Innovation
- Accountability and Integrity
- Financial Sustainability
- Equity, Diversity and Respect
- Environmental Stewardship

Students graduating from ADCI courses will develop and display the following Graduate Attributes.

Problem Solving

Actively identify, apply, analyse, synthesise, conceptualise and/or evaluate knowledge and information that is generated or gathered by reflection, reasoning, representation, opinions to produce an appropriate conclusion or judgment.

System Design

Design and evaluate solutions for complex computing problems, and evaluate systems, components, or processes that meet specified needs.

Critical Thinking

Form independent judgement through objective analysis and evaluation of issues.

Innovative Digital Perspectives

Understand the complexity of technological, social and economic links between individuals, businesses, technology, the community and society to build innovative solutions for unexpected marketplaces.

Teamwork

Function effectively as a member or leader in diverse and multicultural teams, and in multi-disciplinary settings.

Communication

Communicate complex problems and solutions within the community and society through effective verbal, written and presentation skills.

Professional Skills

Contextualise knowledge to assess societal, health, safety, legal and cultural issues, and consequent responsibilities relevant to professional practice.

Ethics

Apply ethical principles and commit to professional ethics and responsibilities and norms of society and business practice.

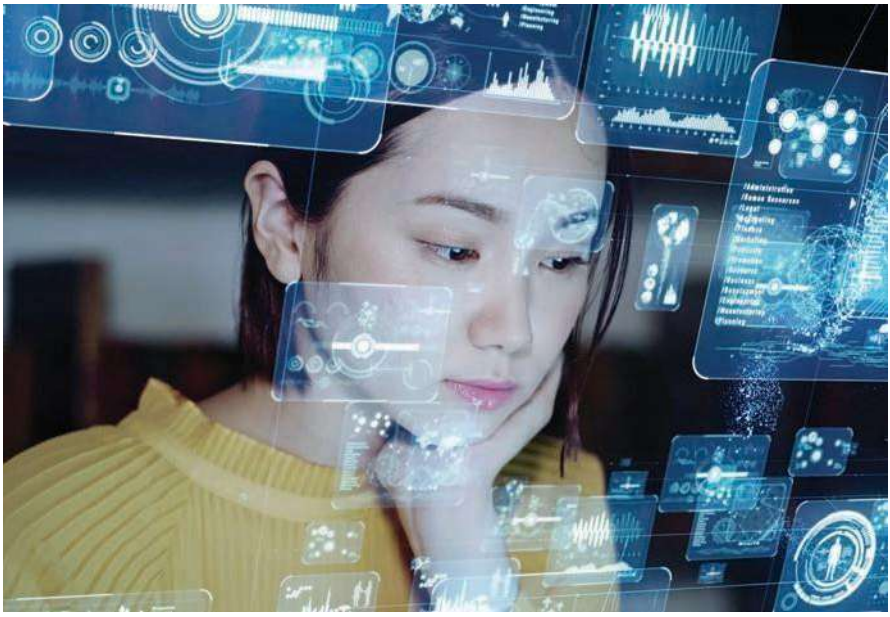
Lifelong Learning

Recognise the need for, and development of the ability to engage in, independent and life-long learning in the broadest context of change.

BACHELOR OF CYBER SECURITY

(BCybSec)

Course ID: CRS1401303
CRICOS Course Code: 112599K



Cyber Security has become increasingly important in modern times with the business world and governments acknowledging the significant threat posed through cyber-attacks. Cyber-attacks threaten individuals, organisations and entire nations and there is every indication that these threats will continue and indeed increase in frequency and sophistication.

Cyber Security is the practice of protecting electronic data systems from criminal and/or unauthorised attacks. The discipline ultimately functions as a preventative measure that defends confidential data and data processes and systems from unwanted breaches. Working in cyber security is well suited to individuals that are curious, have a strong desire to learn and enjoy creative problem solving.

The ADCI Bachelor of Cyber Security provides students with a broad range of knowledge and skills including:

- Design and analyse robust systems that incorporate security best practices.
- Use research skills to critically evaluate existing cyber security knowledge and practice for vulnerabilities and cyber threat.
- Apply creative thinking to core Information and Communications Technology (ICT) concepts.
- Communicate ICT concepts to technical and non-technical audiences.
- Function effectively and work collaboratively as an ICT team member.
- Apply ethical principles to the security and handling of data and information.

ADCI is committed to delivering high quality, globally relevant and in-demand higher education programs in Data Science and Cyber Security.

- Apply independent analysis of cyber security problems to develop optimal solutions and solve cyber threats.
- Identify issues impacting the wider information technology landscape and architecture of cyber security solutions.
- Continue learning and maintain currency of cyber security knowledge.
- Apply organisational and business knowledge to applications in the ICT field.
- Assess and evaluate cyber and physical systems to determine risks, threats, and vulnerabilities that significantly impact society at large.
- Use the SFIA - Skills Framework for the Information Age.

Career options for graduates

There are numerous exciting career options available to graduates of the Bachelor of Cyber Security including:

- Cyber Governance Risk & Compliance Specialist
- Cyber Security Advice & Assessment Specialist
- Cyber Security Analyst
- Cyber Security Architect
- Cyber Security Operations Coordinator
- Cyber Security Penetration Tester
- Cyber Security Professionals
- Cyber Security Engineer

Course ID: CRS1401303

CRICOS Course Code: 112599K

BACHELOR OF CYBER SECURITY COURSE STRUCTURE

Unit Code	Unit Title	Pre-requisites	Credit Points
	YEAR 1		
CSC101	Introduction to Programming	NIL	6
CSC102	Introduction to Computers, Networking & Cloud Computing	NIL	6
DNA101	Fundamentals of Data Science	NIL	6
MAT101	Introduction to Mathematics	NIL	6
SEC101	Human Factors Security and Privacy	NIL	6
DNA102	Introduction to Database Systems	NIL	6
ARI101	Introduction to Artificial Intelligence	CSC101	6
SEC102	Information Risk and Security	NIL	6
	YEAR 2		
CSC203	Data Structures and Algorithms	CSC101	6
CYB201	Network Security	CSC102	6
CYB202	Data Encryption	MAT101	6
CYB203	Security System Design	SEC102	6
CSC204	Access Control and Authentication	CSC102, SEC102	6
CYB204	Ethical Hacking	CSC101, CSC102	6
CYB205	Cyber Forensics	CSC101, CSC102	6
ORG202	Data, Law and Ethics	SEC101	6
	YEAR 3		
CYB306	Security and Privacy Implications of the Internet of Things	Year 2 Units	6
CYB307	Reverse Engineering	CSC101, CSC102, CSC203	6
CAP301	Industry Capstone I	Year 2 Units	6
ORG303	Digital Innovation	Year 2 Units	6
CYB308	Incident Response and Disaster Management	Year 2 Units	6
SEC303	Security Auditing and Compliance	SEC102	6
CAP302	Industry Capstone II	CAP301, Year 2 Units	6
ORG304	Professional Case Study	Year 2 Units	6

BACHELOR OF DATA SCIENCE

(BDataSc)

Course ID: CRS1401301
CRICOS Course Code: 112493J

'Data Scientist' has been ranked as the most desired occupation across all IT disciplines for 3 years in a row.

Data scientists must be able to initiate big data decisions and solve complex problems. This requires data professionals to master a comprehensive range of technical and analytical skills. People who enjoy mathematics and have a strong interest in analytics; machine learning; artificial intelligence and consulting, are a good fit for a career in the data science industry.

The ADCI Bachelor of Data Science provides students with a broad range of knowledge and skills including:

- Design and use relevant programming techniques to create and use databases.
- Think critically to conceptualise, structure and interpret big data problems.
- Apply creative thinking to core ICT concepts
- Function effectively and work collaboratively as an ICT team member.
- Apply ethical principles to the security and handling of data and information.
- Analyse, report and manage data, metadata and derived information, using appropriate storage, access, analysis, reporting and administration tools.
- Be proficient in the use of data collection techniques, quantitative modelling and data visualisation methods on various types of data.
- Continue learning and maintain currency of knowledge as the field of computing continues to develop and innovate.
- Apply organisational and business knowledge to applications in the ICT field.
- Evaluate risk and security issues associated with data storage, access and manipulation.
- Use the SFIA - Skills Framework for the Information Age.

Career options for graduates

There are numerous exciting career options available to graduates of the Bachelor of Data Science including:

- Data Analyst
- Data Quality Officer
- Data Security Officer
- Data Statistician
- Business Intelligence Developer
- Data Scientist
- Data Architect (with experience)
- Data Engineer (with experience)

Course ID: CRS1401301

CRICOS Course Code: 112493J

BACHELOR OF DATA SCIENCE COURSE STRUCTURE

Unit Code	Unit Title	Pre-requisites	Credit Points
	YEAR 1		
CSC101	Introduction to Programming	NIL	6
CSC102	Introduction to Computers, Networking & Cloud Computing	NIL	6
DNA101	Fundamentals of Data Science	NIL	6
MAT101	Introduction to Mathematics	NIL	6
SEC101	Human Factors Security and Privacy	NIL	6
DNA102	Introduction to Database Systems	NIL	6
ARI101	Introduction to Artificial Intelligence	CSC101	6
SEC102	Information Risk and Security	NIL	6
	YEAR 2		
CSC203	Data Structures and Algorithms	CSC101	6
ARI202	Machine Learning	ARI101	6
DNA203	Big Data Infrastructure and Architecture	DNA101	6
MAT202	Statistical Computing	MAT101	6
MAT203	Graph Theory	CSC101, MAT101	6
DNA204	Data Analytics	CSC101, DNA101	6
ORG201	Data Governance	SEC101, DNA102	6
ORG202	Data, Law and Ethics	SEC101	6
	YEAR 3		
CSC305	Distributed Computing	DNA203	6
ARI303	Intelligent Bot Services	ARI202	6
CAP301	Industry Capstone I	Year 2 Units	6
ORG303	Digital Innovation	Year 2 Units	6
CYB306	Security and Privacy Implications of the Internet of Things	Year 2 Units	6
DNA305	Data Visualisation	DNA204	6
CAP302	Industry Capstone II	CAP301, Year 2 Units	6
ORG304	Professional Case Study	Year 2 Units	6

COURSE INFORMATION

Course Duration

The duration of each ADCI Bachelor's Degree course is 3 years or six (6) semesters of full-time study. Each semester is a 15-week study period that includes 12 weeks of structured teaching, a one (1) week study period and two (2) weeks of final assessments including examinations.

Full-time students are required to enrol in four units each semester and attend face-to-face classes for a total of 12 hours per week. In addition, students must allow for additional study time outside of scheduled class hours of approximately a further 24 hours. The indicative full-time student workload is 36 hours per week.

Please also refer to the Academic Calendars, including holiday breaks published in advance at:
https://adci.edu.au/student-information/academic-information/

Assessments

Students are required to complete a number of assessment items as prescribed for each unit of study. Assessments include assigned readings, individual assignments, group assessments, practical activities and examinations. Details of unit assessments are provided in advance in the Student Study Guides and prior to the commencement of each study semester.

Course Completion

To complete the requirements of the course, students must complete all units successfully and attain 144 Credit Points to graduate (including credit given for CPL). To achieve a pass grade in each unit students must achieve a grade of 50% or above and, if an exam is a scheduled assessment item, it must also be passed.

ENTRY REQUIREMENTS

ADCI offers flexible entry options and study pathways. To satisfy the entrance requirements for admission to either of the Bachelor's Degree courses, applicants must provide documentary evidence of the following:

Secondary Education

Completion of Year 12 with the required ATAR (Australia), or the equivalent for international applicants. International applicants should refer to https://adci.edu.au/future-students/entry-requirements/

Achieving a minimum Australian Tertiary Admission Rank (ATAR) score of 55, and:

- a final school grade of C or higher in Mathematics Methods, or
- successful completion of the study unit MAT101 Introduction to Mathematics.

Foundation Studies

Successfully completed Foundation Studies at a recognised Higher Education Provider.

VET Qualifications

Successful completion of a vocational qualification at Certificate 4 (AQF Level 4), or higher in related areas.

Minimum English Proficiency

International applicants where English is not a first language must provide evidence of English proficiency in one of the following ways:

IELTS (International English Language Testing System)

Minimum overall score of 6.0.

TOEFL (Test of English as a Foreign Language)

Minimum overall score of 64 (Internet-based) Test and a minimum of 17 in all sections.

550 (Paper-based) with Test of Written English no less than 5

Cambridge English

In each of the 4 test components, at least: Listening-163, Reading-163, Writing-170, Speaking-179

PTE Academic (Pearson Test of English)

Minimum overall score of 50-57 (Listening-47, Reading-48, Writing-51, Speaking-54).

Don't meet the entry requirements? Please email us and we may be able to assist you - admissions@adci.edu.au

FURTHER INFORMATION

ADCI Campus

ADCI offers its course at its city campus, centrally located at Level 3, 251 Adelaide Terrace, Perth.
The campus is a modern facility offering students a comfortable and supportive learning environment. Although the mode of study offered is face-to-face teaching, students also enjoy access to our online learning platform, Canvas. This platform provides all students with 24-hour access to our extensive learning support and to a wide range of learning resources. More information about our campus is available at: https://adci.edu.au/future-students/our-campus/

Course Commencement Dates

There are two intakes a year, one each semester. Current Academic Calendars can be found on the Important Information page at: https://adci.edu.au/student-information/academic-information/

Class Timetables

Students are provided with Class Timetables in advance of each academic year via the website and the learning management system CANVAS during their studies. Teaching timetables and allocated classrooms are also published in the individual Student Study Guides, which are provided to students following enrolment. https://adci.edu.au/student-information/academic-information/Course Fees

The current and next year Fee Schedules are published online. Tuition fees are subject to change throughout your course and up-to-date tuition fees are published no less than one year prior to the commencement of the next academic year. Refer to the ADCI website for up-to-date tuition fees for each academic year at:
Bachelor of Data Science - https://adci.edu.au/courses/bachelor-of-data-science/

Bachelor of Cyber Security - https://adci.edu.au/courses/bachelor-of-cyber-security/

Credit for prior learning

If an applicant has completed formal studies in a similar area or has extensive work experience, they may be eligible for credit for prior learning (CPL). The Credit for Prior Learning Policy and Procedure along with the ADCI Application for Admission Form can be found at:
https://adci.edu.au/about-us/our-policies/

If you wish to apply for credit, it is highly recommended that this is done at the time of application for admission. A written record of the decision regarding CPL will be provided and this remains valid for a period of two years after acceptance to the institution.

Course Deferral, Suspension or Cancellation

There are certain circumstances under which a student can initiate course deferral, course suspension or cancellation of study. Equally, ADCI can also initiate course suspension or cancellation of an enrolment in certain circumstances. In both cases there are specific conditions to note that are contained in ADCI policy.

- All students should refer to the Student Deferral, Suspension and Cancellation Policy and Procedure.

These are available at: https://adci.edu.au/about-us/our-policies/

International students (Overseas students requiring a Student Visa to study in Australia)

ADCI provides a wide range of information to support the needs of international students including accommodation costs, indicative living expenses in Australia, education costs and school fees and health care costs. This information is published at:
International Students - https://adci.edu.au/future-students/international-students/

In addition, the Department of Education has also released the International Students Fact Sheet providing further information about the Education Services for Overseas Students Framework (ESOS Framework) this can be found at: https://adci.edu.au/future-students/international-students/

Important Information

We also recommend that you familiarise yourself with the documents on the Student Information pages on our website before submitting your Application for Admission. These pages contain information about our student services, academic requirements, student safety and wellbeing and Frequently Asked Questions that you may find helpful.
See https://adci.edu.au/student-information/

Further Study

Students who successfully complete an ADCI course may be eligible to apply for entry to a Master level program of their choosing, subject to meeting the entry criteria of the program for which they are applying.

Changes of Circumstances at ADCI

In the unlikely event ADCI is unable to offer your course on the Commencement Date of your choice, the following will apply.

For prospective students with offers, or students enquiring about subsequent commencement dates. The Academic Director will advise you that the course will no longer be offered, including information about alternative course options available to you. If this decision is taken ADCI will provide you with no less than six months' notice prior to your intended commencement date. Please also refer to our Course Discontinuation Policy at https:// adci.edu.au/about-us/our-policies/

Free Australian Computer Society (ACS) membership

All ADCI students are eligible for free membership of the Australian Computer Society.

APPLICATIONS

Applications for admission

If you have any questions please feel free to contact us by email at admissions@adci.edu.au. You can also choose to provide us with your preferred contact details and we will respond within two (2) working days.

You can also complete an Application for Admission to undertake an ADCI course at: https://adci.edu.au/future-students/entry-requirements/

Australian Data and Cyber Institute

Registered by TEQSA as an
Institute of Higher Education

TEQSA Provider ID: PRV14332
CRICOS Provider Code: 04102F
www.adci.edu.au

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