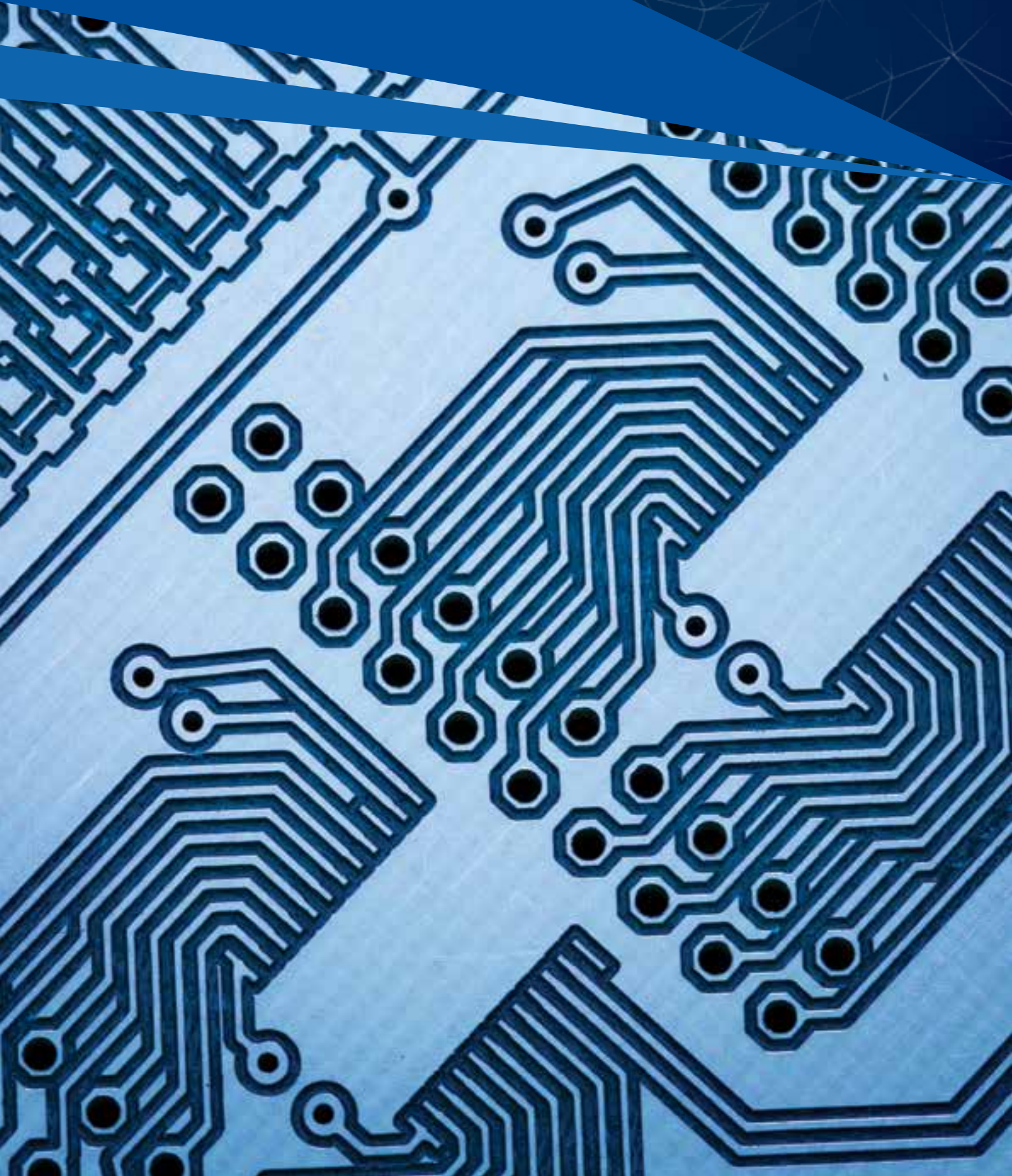University of
South Australia

2019 MATHEMATICS
AND INFORMATION
TECHNOLOGY

STUDY
WITH THE BE

SA's #1
UNIVERSITY FOR GRADUATE CAREERS

QILT: Graduate Destinations Survey 2015 and Graduate Outcomes Survey 2016–17 – Full-time Employment Indicator. Public SA-founded universities only.

No.1 IN SA
FOR STUDENT SATISFACTION

QILT: Course Experience Questionnaire 2016–17. Public SA-founded universities only.

RANKED 26th
IN THE WORLD'S TOP 50 UNDER 50

2017 QS Top 50 Universities Aged Under 50

To be the best in your field, you need a university that offers a choice of over 200 world-class degrees, and is globally recognised for its teaching, research and facilities.

GET CONNECTED

with Australia's University of Enterprise

REAL CAREERS

We are number one in South Australia for graduate careers.* We take a practical approach to teaching and learning so that our graduates can make a real impact in their chosen field.

QILT: Graduate Destinations Survey 2015 and Graduate Outcomes Survey 2016–17 — Full-time Employment Indicator. Public SA-founded universities only.

unisa.edu.au/careers

WORLD-CLASS FACILITIES

Be surrounded by impressive, purpose-built facilities across all six campuses. Be supported by the latest technologies including our fully interactive online learning platform.

unisa.edu.au/campus-facilities

TOP RANKING TEACHERS

Make your study experience relevant and learn from highly qualified academics and industry professionals. UniSA is Australia's best young university for teaching quality.

Ranked Number 1, 2017 THE *Top 200 Under 50 — Teaching Indicator.*

GLOBAL EXPOSURE

Take part in international field trips, work placements, internships, study tours, short-term programs, volunteer opportunities, conferences or a student exchange.

unisa.edu.au/globalopportunities

POWERFUL PARTNERSHIPS

Our learning is influenced by industry, and the latest trends and demands. We collaborate with over 2,500 companies worldwide to bring our students placement, project, research and work opportunities.

University of South Australia | Online

STUDY ON DEMAND

Take full control over your study with our new 100% online, career-focused degrees. Get online student support seven days a week, plan your study to fit around your life, access learning resources 24/7, and log in to an online interactive learning environment anywhere, any time and on any device.

Explore our range of degrees in:

ACCOUNTING

BUILDING AND CONSTRUCTION

COMMUNICATION

COMMUNITY HEALTH

CRIMINAL JUSTICE

DIGITAL MEDIA

HUMAN RESOURCE MANAGEMENT

IT AND DATA ANALYTICS

MANAGEMENT

MARKETING

NUTRITION AND EXERCISE

PSYCHOLOGICAL SCIENCE AND SOCIOLOGY

Take the next step and see if you're eligible by answering a few short questions.

unisaonline.edu.au

ASC

EY Building a better working world

ANZ

tacsi THE AUSTRALIAN CENTRE FOR SOCIAL INNOVATION

Calvary

UNITING COMMUNITIES

SA Power Networks

NO. 1 IN SA
FOR TEACHING QUALITY IN SCIENCE AND MATHEMATICS

QILT: Course Experience Questionnaire 2016-17. Public SA-founded universities only.

LEAD INSTITUTION IN THE $88 MILLION DATA TO DECISIONS COOPERATIVE RESEARCH CENTRE (CRC)

BUILD AN I.T. START UP IN COLLABORATION WITH THE VENTURE CATALYST PROGRAM AND INNOVATION AND COLLABORATION CENTRE

MATHEMATICS AND INFORMATION TECHNOLOGY

Explore the infinite possibilities of mathematics and information technology and its many applications across a wide range of industries. Meet the challenges of modern enterprise by studying the latest theory and practice, and partnering with industry on real-world projects and initiatives. Learn in cutting-edge facilities fitted with the latest technologies, software and industry-standard tools.

unisa.edu.au/study

REAL WORLD EXPERIENCE

Connect with industry through an internship or placement during your studies. Tackle a real-world challenge through ingenuity and innovation, and discover new ways of solving problems and delivering solutions. Complete a discipline-specific project with an Australian business or government department and link up with our leading research concentrations.

Mathematics students can also undertake a one-year project through the Maths Clinic, applying specialist knowledge to an industry problem. There are opportunities for IT honours students to complete a 12-month paid internship with DXC Technology.

TECHNOLOGY PARK

Our Mawson Lakes campus is located next to Technology Park, a hub of more than 100 companies spanning growing industries such as defence, aerospace, advanced electronics, engineering, communication and information technology. This world-class location provides the ideal environment for collaboration with leading businesses, opening doors for knowledge sharing, product development, research and networking opportunities. Mawson Lakes Campus is also home to sustainable and award-winning five-star green rated buildings and wetlands, and is only a 15 minute express train trip from the city.

UNDERGRADUATE

Information Technology / 9
Games and Entertainment Design / 9
Mobile Applications Development / 10
Networking and Cybersecurity / 10
Software Development / 11
Information Technology (Honours) 12
Software Engineering (Honours) 12
Enterprise Business Solutions (Honours) / 13
Information Technology and Data Analytics / 14
Mathematics (Industrial and Applied Mathematics) / 14
Mathematics (Data Science) /15
Applied Science (Industrial and Applied Mathematics) / 15

POSTGRADUATE

Cybersecurity / 16
Information Technology / 17
Information Management / 17
Data Science / 18

RESEARCH

Masters by Research / 19
Doctor of Philosophy (PhD) / 19

CAMPUS SPACES

GAMING LAB / A collaborative hub for IT students to game and explore, fitted with alienware computers and virtual reality headsets.

New SPACES

IT INNOVATION AND DEVELOPMENT STUDIOS / Dedicated spaces for IT students to develop their professional skills and find innovative solutions to industry problems.

FUTURE INDUSTRIES INSTITUTE / A multi-million dollar research space focusing on building knowledge and capacity in core future industries through innovation in engineering and the physical sciences.

PRIDHAM HALL / A $50 million space that has transformed our campus blueprint in the city's west end; featuring a sports centre, lap pool, gym, dance/aerobics studio, function rooms, and facilities to seat 1800 students and their families for graduation ceremonies.

Discover the virtual fly-through at unisa.edu.au/pridhamhall

Image courtesy of Insight Visuals (photographer Chris Oaten)

UNIVERSITY OF SOUTH AUSTRALIA CANCER RESEARCH INSTITUTE / Located in SA's health and biomedical precinct in the Adelaide CBD, this $247 million building is the new leading destination for health research and teaching.

See this world-class project at unisa.edu.au/facilities/unisaCRI

MOD. / This futuristic museum of discovery offers immersive experiences to the public through dynamic and changing exhibition programs across seven dedicated gallery spaces.

To find out more visit unisa.edu.au/MOD

Your PATHWAY OPTIONS

UniSA MATHS SHORT COURSE

Want to study a mathematics degree but didn't complete SACE Stage 2 Mathematical Methods? We offer a unique short course for students to complete the required prerequisite before commencing their degree at UniSA. Work alongside highly qualified tutors in small learning groups, and get prepared for tertiary study.

For more information visit *unisa.edu.au/maths-short-course*

BECOME A TEACHER

Apply for a packaged program at UniSA and receive guaranteed entry* into the Master of Teaching (Secondary) to become a high school mathematics teacher. Simply preference the unique SATAC code below.
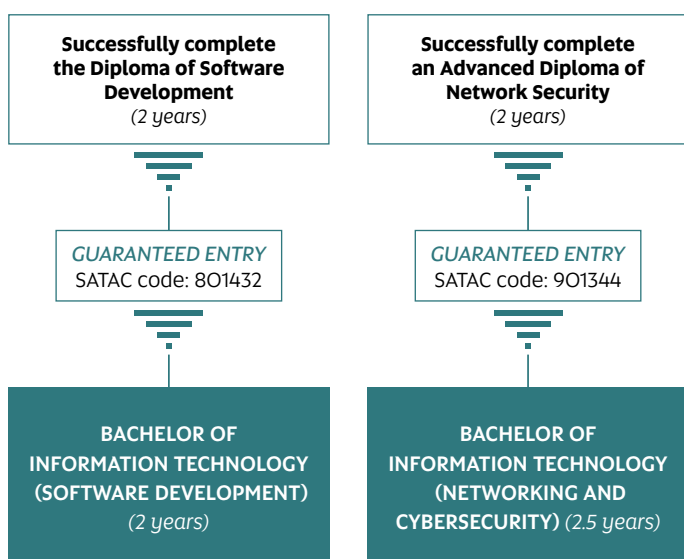
Bachelor of Mathematics (Industrial and Applied Mathematics) OR Bachelor of Mathematics (Data Science) / Master of Teaching (Secondary): SATAC code: 434111

To learn more visit *unisa.edu.au/become-a-teacher*

*Additional selection criteria applies.

STUDY AN IT DEGREE

UniSA and TAFE SA have teamed up to offer packaged IT pathways into university. Study one of the TAFE SA diplomas below and get guaranteed entry into select UniSA IT degrees.

Successfully complete the Diploma of Software Development *(2 years)*	**Successfully complete an Advanced Diploma of Network Security** *(2 years)*
GUARANTEED ENTRY SATAC code: 8O1432	*GUARANTEED ENTRY* SATAC code: 9O1344
BACHELOR OF INFORMATION TECHNOLOGY (SOFTWARE DEVELOPMENT) *(2 years)*	**BACHELOR OF INFORMATION TECHNOLOGY (NETWORKING AND CYBERSECURITY)** *(2.5 years)*

UNDERGRADUATE

Your tertiary learning and career starts with undergraduate study

QUALIFICATIONS*

- Bachelor: 3 years
- Bachelor (Honours): 4 years
- Honours: 1 year

*study times are approximate and based on a full-time study load.

FIND OUT MORE

For more information about all of the undergraduate degrees on offer and entry requirements visit:

unisa.edu.au/study

Further details about studying with UniSA are also outlined on page 20 of this guide.

HOW TO APPLY

Go online for all the information you need on applying to study at UniSA including SATAC requirements, admissions pathways, guaranteed entry scores, study credit and other commonly asked questions.

unisa.edu.au/apply

Please note: The Selection Rank (ATAR) scores listed in the Entry information are indicative of the 2018 cut-offs.

Campus: CE: City East, CW: City West, M: Magill,
ML: Mawson Lakes, MG: Mount Gambier or W: Whyalla **C**

Full-time program
duration in years **1**   Part-time study
available **PT**   Honours
available **H**

Bachelor of

INFORMATION TECHNOLOGY LBCP

ON-CAMPUS/ONLINE **ML** **3** **PT** **H** *unisa.edu.au/IT*

ENTRY

SATAC code.................................434041
Selection Rank *(ATAR)*.........................60.75
Guaranteed Entry:
    Selection Rank *(ATAR)*.........................70
    Selection Rank *(VET)*.........................DIP
Prerequisites.................................none
Assumed knowledge.........................none
Start date(s).........................February, July

Build a dynamic career as an IT professional.

Study a broad IT degree with your choice of minors to tailor your learning experience.

Choose to transfer into a specialised IT degree after the first 12 months with common first year courses across all programs.

Train with the latest industry-standard technologies and tools in the on-campus IT Development Studio and IT Innovation Studio.

Gain practical experience through real projects and placements.

MINORS

You have the opportunity to select either two IT minors or one IT minor and a minor from a different discipline within the University.

IT MINORS:
- 3D Animation
- Business Systems
- Data Analytics
- Games
- Mobile Applications
- Multimedia
- Networking
- Security
- Software Development
- Visual Effects

POPULAR CROSS-DISCIPLINARY MINORS:
- Accounting
- Digital Media
- Innovation and Entrepreneurship
- International Business
- Marketing
- Management

For a full list of minors visit,
unisa.edu.au/msm

CAREER OPPORTUNITIES

Software developer / database administrator / networking analyst / information technologist / IT asset coordinator / manager systems infrastructure

PROFESSIONAL ACCREDITATION

This degree is professionally accredited by the Australian Computer Society.

ADMISSIONS PATHWAYS

Alternative entry options include:
- Foundation Studies or the Diploma in Science and Technology with UniSA College
- SAIBT Diploma of Technology

RELATED DEGREES

- Bachelor of Information Technology (Games and Entertainment Design)
- Bachelor of Information Technology (Mobile Application Development)
- Bachelor of Information Technology (Networking and Cybersecurity)
- Bachelor of Information Technology (Software Development)
- Bachelor of Information Technology (Honours) (Enterprise Business Solutions)
- Bachelor of Business (Information Strategy and Management)

FURTHER STUDY

- Bachelor of Information Technology (Honours) – one year
- Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

PROGRAM STRUCTURE

FIRST YEAR
Network Fundamentals
Problem Solving and Programming
Information Technology Fundamentals
Design Thinking and Digital Innovation
Systems Analysis
Database Fundamentals
Programming Fundamentals
IT Project Management
SECOND YEAR
Interface Design, Interaction and Experience
Web Development
Service Management and Integration
Minor Course
Systems Design
Information Technology Strategy and Management
2 x Minor Course
THIRD YEAR
Elective
3 x Minor Course
2 x Minor Course
ICT Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of

INFORMATION TECHNOLOGY (GAMES AND ENTERTAINMENT DESIGN) LBCP

ON-CAMPUS/ONLINE **ML** **3** **PT** **H** *unisa.edu.au/IT*

ENTRY

SATAC code.................................434881
Selection Rank *(ATAR)*.........................60.75
Guaranteed Entry:
    Selection Rank *(ATAR)*.........................70
    Selection Rank *(VET)*.........................DIP
Prerequisites.................................none
Assumed knowledge.........................none
Start date(s).........................February, July

Learn to develop new and exciting applications for different industries and markets.

Apply technical skills and creativity to game-type productions, software and interfaces.

Study computer graphics programming, multimedia design and information visualisation.

Train with the latest industry-standard technologies and tools in the on-campus IT Development Studio and IT Innovation Studio.

Gain practical experience through a major ICT project in your final year.

CAREER OPPORTUNITIES

Game designer / android and iOS developer / mobile games developer / multimedia specialist / programmer / web developer

PROFESSIONAL ACCREDITATION

This degree is professionally accredited by the Australian Computer Society.

ADMISSIONS PATHWAYS

Alternative entry options include:
- Foundation Studies or the Diploma in Science and Technology with UniSA College
- SAIBT Diploma of Technology

UniSA's IT degrees share common first year courses, so students also have the option to transfer to a different IT specialisation and receive study credit for successfully completed courses.

RELATED DEGREES

- Bachelor of Information Technology
- Bachelor of Information Technology (Mobile Application Development)
- Bachelor of Information Technology (Networking and Cybersecurity)
- Bachelor of Information Technology (Software Development)
- Bachelor of Information Technology (Honours) (Enterprise Business Solutions)

FURTHER STUDY

- Bachelor of Information Technology (Honours) – one year
- Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

PROGRAM STRUCTURE

FIRST YEAR
Network Fundamentals
Problem Solving and Programming
Design Thinking and Digital Innovation
Information Technology Fundamentals
Systems Analysis
Database Fundamentals
Programming Fundamentals
IT Project Management
SECOND YEAR
Interface Design, Interaction and Experience
Web Development
Data Structures
Agile Development with .NET
Systems Design
Tools for Software Development
Game Asset Creation
Software Development with C++
THIRD YEAR
Computer Game Design Concepts
Small Business for Professionals
Mobile Game Development
Artificial Intelligence
Elective
Game Engines and Graphics
ICT Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of

INFORMATION TECHNOLOGY (MOBILE APPLICATION DEVELOPMENT) LBCP

ON-CAMPUS/ONLINE ML 3 PT H *unisa.edu.au/IT*

ENTRY

SATAC code..................................434091
Selection Rank *(ATAR)*.................64.45
Guaranteed Entry:
   Selection Rank *(ATAR)*................70
   Selection Rank *(VET)*..................DIP
Prerequisites..............................none
Assumed knowledge....................none
Start date(s)......................February, July

Join the booming mobile apps industry.

Gain technical knowledge and specialist software skills to design your own apps for various platforms.

Influence how people interact with social networks, entertainment, e-commerce and information sourcing and sharing.

Train with the latest industry-standard technologies and tools in the on-campus IT Development Studio and IT Innovation Studio.

Connect with industry and build practical skills through major projects and placement opportunities.

CAREER OPPORTUNITIES

Android and iOS applications developer / software applications programmer / mobile applications architect

PROFESSIONAL ACCREDITATION

This degree is professionally accredited by the Australian Computer Society.

ADMISSIONS PATHWAYS

Alternative entry options include:

- Foundation Studies or the Diploma in Science and Technology with UniSA College
- SAIBT Diploma of Technology

UniSA's IT degrees share common first year courses, so students also have the option to transfer to a different IT specialisation and receive study credit for successfully completed courses.

RELATED DEGREES

- Bachelor of Information Technology
- Bachelor of Information Technology (Games and Entertainment Design)
- Bachelor of Information Technology (Networking and Cybersecurity)
- Bachelor of Information Technology (Software Development)

FURTHER STUDY

- Bachelor of Information Technology (Honours) — one year
- Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

PROGRAM STRUCTURE

FIRST YEAR
Network Fundamentals
Problem Solving and Programming
Information Technology Fundamentals
Design Thinking and Digital Innovation
Systems Analysis
Database Fundamentals
Programming Fundamentals
IT Project Management
SECOND YEAR
Interface Design, Interaction and Experience
Web Development
Data Structures
Agile Development with .NET
Systems Design
Tools for Software Development
Software Development with C++
Elective
THIRD YEAR
Small Business for Professionals
Concurrent Programming
Mobile Game Development
Information Security Management
Mobile Application Enterprise Development
Mobile Enterprise Workshop
ICT Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of

INFORMATION TECHNOLOGY (NETWORKING AND CYBERSECURITY) LBCP

ON-CAMPUS/ONLINE ML 3 PT H *unisa.edu.au/IT*

ENTRY

SATAC code..................................434891
Selection Rank *(ATAR)*..................60.3
Guaranteed Entry:
   Selection Rank *(ATAR)*................70
   Selection Rank *(VET)*..................DIP
Prerequisites..............................none
Assumed knowledge....................none
Start date(s)......................February, July

Focus on the security of information in contemporary IT systems.

Develop the skills to support a network roll-out and maintenance.

Gain an understanding of network topologies and devices such as routers and firewalls.

Prepare for industry certification exams in CISCO, CCNA and CCNP as part of your degree.

Train with the latest industry-standard technologies and tools in the on-campus IT Development Studio and IT Innovation Studio.

Complete major projects and placements with key industry partners.

CAREER OPPORTUNITIES

Network administrator / IT cybersecurity specialist / network engineer / systems analyst

PROFESSIONAL ACCREDITATION

This degree is professionally accredited by the Australian Computer Society.

ADMISSIONS PATHWAYS

Alternative entry options include:

- Foundation Studies or the Diploma in Science and Technology with UniSA College
- SAIBT Diploma of Technology

UniSA's IT degrees share common first year courses, so students also have the option to transfer to a different IT specialisation and receive study credit for successfully completed courses.

RELATED DEGREES

- Bachelor of Information Technology
- Bachelor of Information Technology (Games and Entertainment Design)
- Bachelor of Information Technology (Mobile Application Development)
- Bachelor of Information Technology (Software Development)

FURTHER STUDY

- Bachelor of Information Technology (Honours) — one year
- Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

PROGRAM STRUCTURE

FIRST YEAR
Network Fundamentals
Problem Solving and Programming
Information Technology Fundamentals
Design Thinking and Digital Innovation
Systems Analysis
Database Fundamentals
Programming Fundamentals
IT Project Management
SECOND YEAR
Interface Design, Interaction and Experience
Web Development
Systems Administration
Network Architecture
Systems Design
Elective
Network Security
CCNP Route
THIRD YEAR
Digital Forensics Essentials
CCNP Switch and Troubleshoot
Cloud, Virtualisation and Storage
Information Security Management
Data Centre Management
Communication and Collaboration
ICT Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of

INFORMATION TECHNOLOGY (SOFTWARE DEVELOPMENT) LBCP

ON-CAMPUS/ONLINE **ML** **3** **PT** **H** *unisa.edu.au/IT*

ENTRY

SATAC code......................................434871
Selection Rank *(ATAR)* 63.85
Guaranteed Entry:
    Selection Rank *(ATAR)*.....................7O
    Selection Rank *(VET)*.............................DIP
Prerequisites.......................................none
Assumed knowledge.........................none
Start date(s)...........................February, July

Enter the world of software development and programming.

Become an expert in the design, implementation and testing of small and large software systems.

Be exposed to real-world applications, latest research developments and technologies.

Train with the latest industry-standard technologies and tools in the on-campus IT Development Studio and IT Innovation Studio.

Connect with industry and build practical skills through major projects and placement opportunities.

CAREER OPPORTUNITIES

Software developer / software engineer / iOS developer / software architect / programmer / front end developer

PROFESSIONAL ACCREDITATION

This degree is professionally accredited by the Australian Computer Society.

ADMISSIONS PATHWAYS

Alternative entry options include:

· Foundation Studies or the Diploma in Science and Technology with UniSA College
· SAIBT Diploma of Technology

UniSA's IT degrees share common first year courses, so students also have the option to transfer to a different IT specialisation and receive study credit for successfully completed courses.

RELATED DEGREES

· Bachelor of Information Technology
· Bachelor of Information Technology (Games and Entertainment Design)
· Bachelor of Information Technology (Mobile Application Development)
· Bachelor of Information Technology (Networking and Cybersecurity)
· Bachelor of Software Engineering (Honours)

FURTHER STUDY

· Bachelor of Information Technology (Honours) – one year
· Master of Information Technology (Enterprise Management)
· Master of Cybersecurity
· Master of Data Science

PROGRAM STRUCTURE

FIRST YEAR
Network Fundamentals
Problem Solving and Programming
Information Technology Fundamentals
Design Thinking and Digital Innovation
Systems Analysis
Database Fundamentals
Programming Fundamentals
IT Project Management

SECOND YEAR
Interface Design, Interaction and Experience
Web Development
Data Structures
Database for the Enterprise
Systems Design
Tools for Software Development
Software Development with C++
Computer Science Foundations

THIRD YEAR
Elective
Agile Development with .NET
Concurrent Programming
Artificial Intelligence
Cloud Programming
Mobile Application Enterprise Development
ICT Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

> Sav has been around computers since he can remember. His side hobby of creating code has now become a lifelong career choice.
>
> "UniSA has given me the professional tools to build my own career. They go above and beyond offering students internships, placement and graduate positions in world-class companies."
>
> During his studies Sav completed a six-month internship at IBM Research in Melbourne. He is now a cadet at Defence Science and Technology Group.
>
> "If you aren't afraid of a challenge and you are after a fulfilling career with plenty of job opportunities, studying IT or software engineering with UniSA is an excellent choice."

Sav Tripodi / BACHELOR OF INFORMATION TECHNOLOGY

Bachelor of
INFORMATION TECHNOLOGY (HONOURS) LHCP

ON-CAMPUS ML 1 PT *unisa.edu.au/IT*

ENTRY

SATAC code................................4BHOO6
Selection Rank *(ATAR)*...........................n/a
Guaranteed Entry:
    Selection Rank *(ATAR)*.....................n/a
    Selection Rank *(VET)*.......................n/a
Prerequisites................................none
Assumed knowledge...................none
Start date(s)......................February, July

Further your qualifications in IT with a one-year honours program.

Enhance your professional career opportunities in computing, information technology or information systems.

Study advanced coursework and complete a major project in computer and information science.

Be supported by a strong research environment including the University's Advanced Computing Research Centre.

Benefit from some flexible online learning.

Pursue postgraduate studies and explore the latest knowledge and advancements in IT.

CAREER OPPORTUNITIES

ICT project manager / network security manager / telecoms engineer / software developer / test manager / programmer / IT department manager

IMPORTANT INFORMATION

Students who have successfully completed a bachelor's degree in information technology or a related discipline, and who have displayed a high level of academic achievement throughout their degree (typically a credit average or above) are encouraged to apply.

PROFESSIONAL ACCREDITATION

This degree is professionally accredited by the Australian Computer Society.

FURTHER STUDY

- Master of Cybersecurity
- Master of Data Science
- Masters by Research
- Doctor of Philosophy (PhD)

PROGRAM STRUCTURE

FIRST YEAR
Research Methods
Elective
ITMS Honours Minor Thesis 1
Elective
Elective
ITMS Honours Minor Thesis 2

Bachelor of
SOFTWARE ENGINEERING (HONOURS) LHSG

ON-CAMPUS/ONLINE ML 4 PT *unisa.edu.au/IT*

ENTRY

SATAC code................................434211
Selection Rank *(ATAR)*........................71.65
Guaranteed Entry:
    Selection Rank *(ATAR)*........................8O
    Selection Rank *(VET)*..............DIP in IT
Prerequisites................................none
Assumed knowledge...................none
Start date(s)......................February, July

Develop a broad understanding of computing and IT theory and practice.

Gain specialised knowledge to become a software engineer including critical cognitive skills.

Go beyond traditional programming and learn to develop large, complex software systems.

Focus on areas such as artificial intelligence, cloud programming and software development, and build your skills in .Net and C++.

Train with the latest industry-standard technologies and tools in the on-campus IT Development Studio and IT Innovation Studio.

Complete a major specialist project in your final year of study focusing on a real-world IT issue.

CAREER OPPORTUNITIES

Software engineer / test manager / software developer / iOS developer / programmer

PROFESSIONAL ACCREDITATION

This degree is professionally accredited by the Australian Computer Society.

RELATED DEGREES

- Bachelor of Information Technology (Software Development)
- Bachelor of Information Technology (Honours) (Enterprise Business Solutions)
- Bachelor of Information Technology
- Bachelor of Information Technology (Games and Entertainment Design)
- Bachelor of Information Technology (Mobile Application Development)
- Bachelor of Information Technology (Networking and Cybersecurity)

FURTHER STUDY

- Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

PROGRAM STRUCTURE

FIRST YEAR
Network Fundamentals
Problem Solving and Programming
Information Technology Fundamentals
Design Thinking and Digital Innovation
Systems Analysis
Database Fundamentals
Programming Fundamentals
IT Project Management

SECOND YEAR
Interface Design, Interaction and Experience
Web Development
Data Structures
Database for the Enterprise
Systems Design
Tools for Software Development
Computer Science Foundations
Software Development with C++

THIRD YEAR
Agile Development with .NET
Concurrent Programming
Artificial Intelligence
Elective
Cloud Programming
Computer Science Topics for Software Engineers
Mobile Application Enterprise Development
Systems Architecture

FOURTH YEAR
Software Engineering Minor 1
Research Methods
ICT Specialist Major Project 1 (Honours)
Software Engineering Minor 2
Software Engineering Minor 3
ICT Specialist Major Project 2 (Honours)

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Campus: CE: City East, CW: City West, M: Magill,
ML: Mawson Lakes, MG: Mount Gambier or W: Whyalla (C)

Full-time program
duration in years (1)

Part-time study
available (PT)

Honours
available (H)

Bachelor of

INFORMATION TECHNOLOGY (HONOURS) (ENTERPRISE BUSINESS SOLUTIONS) LHIT

ON-CAMPUS (ML) (4) *unisa.edu.au/IT*

ENTRY

SATAC code...434121
Selection Rank *(ATAR)* 84.45
Guaranteed Entry:
   Selection Rank *(ATAR)* ....n/a
   Selection Rank *(VET)* ....DIP in IT
Prerequisites...none
Assumed knowledge...........................none
Start date(s) ....February

Set yourself apart with a degree delivered by UniSA and DXC Technology (DXC) — one of the largest technology companies in the world.

Experience world-leading education and become part of the next generation of business and IT leaders.

Study alongside some of Australia's best and brightest, learning with the latest industry tools, technologies and research.

Get unparalleled experience with a 12-month paid internship with DXC working on complex, large-scale IT projects with support of a dedicated mentor.

Choose a stream of study to tailor your learning experience.

STREAMS

- Application Services
- Infrastructure Services

CAREER OPPORTUNITIES

Solutions architect / software engineer / business analyst / project manager / network architect

PROFESSIONAL ACCREDITATION

This degree is professionally accredited by the Australian Computer Society.

RELATED DEGREES

- Bachelor of Software Engineering (Honours)
- Bachelor of Information Technology
- Bachelor of Information Technology (Software Development)
- Bachelor of Information Technology (Networking and Cybersecurity)

FURTHER STUDY

- Master of Information Technology (Enterprise Management)
- Master of Cybersecurity
- Master of Data Science

PROGRAM STRUCTURE

FIRST YEAR

Design Thinking and Digital Innovation
Problem Solving and Programming
Network Fundamentals
Information Technology Fundamentals

Programming Fundamentals
IT Project Management
Database Fundamentals
Systems Analysis

APPLICATION SERVICES STREAM

SECOND YEAR

Web Development
Interface Design, Interaction & Experience
Data Structures
Accounting Principles for Business Decisions

Systems Design
Tools for Software Development
Management and Organisation
Business Decision Making Simulation

THIRD YEAR

Service Management and Integration
Concurrent Programming
Professional Development and Practice
Agile Development with .NET

IT Industry Internship
Research Methods

FOURTH YEAR

IT Industry Internship (Honours)

Cloud Programming
Big Data Basics
Mobile Application Enterprise Development
IT Elective

INFRASTRUCTURE SERVICES STREAM

SECOND YEAR

Information Security Management
Systems Administration
Network Architecture
Accounting Principles for Business Decisions

Systems Design
Network Security
Communication and Collaboration
Business Decision Making Simulation

THIRD YEAR

Service Management and Integration
Management and Organisation
Professional Development and Practice
Cloud, Virtualisation and Storage

IT Industry Internship
Research Methods

FOURTH YEAR

IT Industry Internship (Honours)

Big Data Basics
Information Technology Strategy and
   Management
Data Centre Management
IT Elective

> "
>
> Ready to launch a professional career in the ICT industry, Damien chose to study an honours degree at UniSA.
>
> "The opportunity to graduate with honours and partake in a twelve-month paid internship with DXC Technology was definitely the best selling point.
>
> "My time at UniSA was an amazing experience; the facilities were excellent and there is a real positive culture."
>
> Damien now works as a Service Delivery Consultant with DXC — the global IT services and solutions leader.
>
> "

Damien Raines / BACHELOR OF INFORMATION TECHNOLOGY (HONOURS) (ENTERPRISE BUSINESS SOLUTIONS)

Bachelor of
INFORMATION TECHNOLOGY AND DATA ANALYTICS XBCP

100% ONLINE · **3** · **PT** · *unisaonline.edu.au/degrees/IT-data-analytics*

DEGREE INFO

Selection Rank *(ATAR)*................................NEW
Start dates..................January, April, June, September
Time commitment.............10–15 hours per week per course
Prerequisites..none
Assumed knowledge.............................none

Study IT and Data Analytics On Demand – access online support services seven days a week, view learning resources 24/7 and log in to the interactive online environment anywhere, any time, and on any device.

Benefit from flexible study with no need to attend lectures, or come on campus – all courses and assessments are 100% online.

Learn in bite-sized ten-week blocks with courses designed specifically for online learning.

Analyse and visualise rich data sources, spot data trends, and generate data management strategies.

Train with software tools used by industry professionals.

Gain valuable knowledge and insights from our industry partnerships – the Institute of Analytics Professionals of Australia and the leader in business analytics software – SAS.

CAREER OPPORTUNITIES

Big data visualiser / data scientist / business data analyst / web and software developer / database designer / information security analyst

ADMISSIONS PATHWAYS

Alternative entry options include:

· Completion of online literacy and numeracy test with relevant work experience
· Foundation Studies program through UniSA College

SCHOLARSHIPS AND GRANTS

Apply for a range of scholarships and grants when you enrol into a UniSA Online degree. Conditions apply – visit *unisaonline.edu.au/scholarships*

CREDIT CHECK

Fast-track your degree and receive credit for past study and/or work experience. For more information visit *unisaonline.edu.au/credit.*

HOW TO APPLY

1. Check your eligibility at *unisaonline.edu.au/eligibility*

2. Receive your conditional offer

3. Complete your application and send through your documents

To apply, visit *unisaonline.edu.au* or call 1800 531 962.

PROGRAM STRUCTURE

FIRST YEAR
Critical Approaches to Online Learning
Information Technology Fundamentals
Problem Solving and Programming
Design Thinking and Digital Innovation
Systems Analysis
Programming Fundamentals
IT Project Management
Database Fundamentals

SECOND YEAR
Systems Design
Data Structures
Web Development
Interface Design, Interaction and Experience
Statistics Using R
Big Data Analytics
2 x Electives

THIRD YEAR
Network Fundamentals
Data Visualisation
Business Analytics
Predictive Analytics
ICT Project (Part 1)
ICT Project (Part 2)
2 x Electives

Bachelor of
MATHEMATICS (INDUSTRIAL AND APPLIED MATHEMATICS) LBMH

ON-CAMPUS/ONLINE · **ML** · **3** · **PT** · *unisa.edu.au/maths*

ENTRY

SATAC code..434161
Selection Rank *(ATAR)*............................n/a
Guaranteed Entry:
    Selection Rank *(ATAR)*........................85
    Selection Rank *(VET)*...........................DIP
Prerequisites..........SACE Stage 2 Math Methods
Assumed knowledge.............................none
Start date(s)..........................February, July

Explore the relationship and application of mathematics to other disciplines such as IT, engineering, physics and biology.

Develop your problem-solving and analytical skills in simulation theory, algebra, differential equations and stochastic calculus.

Build your IT and programming skills with courses that include statistical methods, fundamentals of programming, and databases.

Participate in the Maths Clinic program in your final year, working closely with an industry partner on a real-world project.

Gain international experience through a study exchange.

Become a maths teacher by completing postgraduate studies through the Master of Teaching (Secondary).

CAREER OPPORTUNITIES

Biostatistician / big data researcher / business data analyst / information security analyst / teacher (with further study)

ADMISSIONS PATHWAYS

Alternative entry options include:

· Completion of the UniSA Maths Short Course*
· Foundation Studies program through UniSA College

* For students that have not successfully completed SACE Stage 2 Mathematical Methods, but have completed SACE Stage 1 Mathematics, at least 20 credits, C grade or higher.

UniSA's mathematics degrees share common first year courses, so students also have the option to transfer to a different mathematics specialisation and receive study credit for successfully completed courses.

BECOME A TEACHER

This degree can be used for guaranteed entry into the Master of Teaching (Secondary) (MMET) subject to meeting set academic criteria. For more information see page 8.

RELATED DEGREES

· Bachelor of Mathematics (Data Science)
· Bachelor of Science
· Bachelor of Software Engineering (Honours)

FURTHER STUDY

· Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics) – one year
· Master of Data Science
· Master of Cybersecurity
· Master of Teaching (Secondary)

PROGRAM STRUCTURE

FIRST YEAR
Calculus 1
Statistical Methods
Problem Solving and Programming
Discrete Mathematics
Calculus 2
Linear Algebra
Programming Fundamentals
Database Fundamentals

SECOND YEAR
Applied Probability
Linear Programming and Networks
Methods of Applied Mathematics 1
OR:
Elective
Elective
Mathematical Communication
Mathematical Modelling
Elective
Differential Equations 1

THIRD YEAR
Mathematics Clinic 1
Optimisation
Fundamentals of Real Analysis
Multivariable Calculus
Advanced Mathematics Clinic
Topics in Mathematics 1
Topics in Mathematics 2
University Elective

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of

MATHEMATICS (DATA SCIENCE) LBMH

NEW

ON-CAMPUS/ONLINE **ML** **3** **PT** *unisa.edu.au/maths*

ENTRY

SATAC code......................................434171
Selection Rank *(ATAR)*..........................n/a
Guaranteed Entry:
    Selection Rank *(ATAR)*......................85
    Selection Rank *(VET)*........................DIP
Prerequisites......................SACE Stage 2 Math Methods
Assumed knowledge...........................none
Start date(s)........................February, July

Enter the thriving field of data science where skilled professionals are in high demand.

Learn to solve complex problems through quantifying and understanding data.

Study a balanced mix of mathematics, information technology and data science.

Focus on courses in calculus, statistical methods, fundamentals of programming, web development, data structures and mathematical modelling.

Complete an industry-based ICT project in your final year based on a real-world challenge.

Become a maths teacher by completing postgraduate studies through the Master of Teaching (Secondary).

CAREER OPPORTUNITIES

Data scientist / big data visualiser / big data researcher / data miner / teacher (with further study)

ADMISSIONS PATHWAYS

Alternative entry options include:

- Completion of the UniSA Maths Short Course*
- Foundation Studies program through UniSA College

* For students that have not successfully completed SACE Stage 2 Mathematical Methods, but have completed SACE Stage 1 Mathematics, at least 20 credits, C grade or higher.

UniSA's mathematics degrees share common first year courses, so students also have the option to transfer to a different mathematics specialisation and receive study credit for successfully completed courses.

BECOME A TEACHER

This degree can be used for guaranteed entry into the Master of Teaching (Secondary) subject to meeting set academic criteria. For more information see page 8.

RELATED DEGREES

- Bachelor of Mathematics (Industrial and Applied Mathematics)
- Bachelor of Science
- Bachelor of Software Engineering (Honours)

FURTHER STUDY

- Bachelor of Applied Science (Honours) (Industrial and Applied Mathematics) – one year
- Master of Data Science
- Master of Cybersecurity
- Master of Teaching (Secondary)

PROGRAM STRUCTURE

FIRST YEAR
Calculus 1
Statistical Methods
Problem Solving and Programming
Discrete Mathematics
Calculus 2
Linear Algebra
Programming Fundamentals
Database Fundamentals
SECOND YEAR
Statistical Foundations
Data Structures
Web Development
Interface Design, Interaction and Experience
Mathematical Communication
Mathematical Modelling
Data Analytics using R
Analytics for Decision Making
THIRD YEAR
Linear Programming and Networks
Predictive and Descriptive Analytics
Visualisation for Data Science
IT Project Management
Text and Social Media Analytics
Survival Analytics
ICT Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Bachelor of

APPLIED SCIENCE (HONOURS) (INDUSTRIAL AND APPLIED MATHEMATICS) LHMS

ON-CAMPUS/ONLINE **ML** **1** **PT** *unisa.edu.au/science*

ENTRY

SATAC code....................................4BHOO5
Selection Rank *(ATAR)*..........................n/a
Guaranteed Entry:
    Selection Rank *(ATAR)*.....................n/a
    Selection Rank *(VET)*......................n/a
Prerequisites...none
Assumed knowledge...........................none
Start date(s)........................February, July

Study a one-year honours program and prepare for advanced study and research in applied mathematics, statistics and optimisation.

Conduct a major industrial, scientific or commercial project in applied mathematics.

Enhance your problem-solving and analytical skills.

Cover topics such as simulation theory, algebra, differential equations and stochastic calculus.

Access the University's multi-million dollar Materials and Minerals Science Learning and Research Hub located on campus.

CAREER OPPORTUNITIES

Environmental modeller / mathematical analyst or modeller / mathematician / data scientist / defence analyst / research scientist

RELATED DEGREES

- Bachelor of Mathematics (Data Science)
- Bachelor of Mathematics (Industrial and Applied Mathematics)

FURTHER STUDY

- Master of Data Science
- Master of Cybersecurity
- Masters by Research
- Doctor of Philosophy (PhD)

PROGRAM STRUCTURE

FIRST YEAR
Honours Topics in Mathematics and Statistics
Research Methods
Honours Mathematics and Statistics Project 1
Elective 1
Elective 2
Honours Mathematics and Statistics Project 2

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

POSTGRADUATE

Take your career to the next level and develop further knowledge and skills through postgraduate study.

QUALIFICATIONS*

· Graduate Certificate: 6 months
· Graduate Diploma: 1 year
· Master: 1–2 years

*study times are approximate and based on a full-time study load.

FIND OUT MORE

For more information about all of the postgraduate qualifications on offer and entry requirements visit:

unisa.edu.au/study

Further details about studying with UniSA are also outlined on page 20 of this guide.

HOW TO APPLY

Go online for all the information you need on applying to study at UniSA.

unisa.edu.au/apply

Master of

CYBERSECURITY LMCY

NEW

ON-CAMPUS/ONLINE ML 2 PT *unisa.edu.au/IT*

ENTRY

SATAC code..........................4CM2O7
Fees..CSP
Start date(s)..................February, July

Join a growing industry tasked with protecting critical IT infrastructure and information.

Study technical topics such as web and network security, digital forensics, identity management and access control.

Apply technical skills to organisational contexts with a focus on risk management and incident response.

Devise and implement a defence strategy for a complex enterprise environment in a final-year cybersecurity exercise.

Connect with the University's Innovation and Collaboration Centre and access industry expertise in technology, design, business growth, management, marketing and commercialisation.

CAREER OPPORTUNITIES

Cybersecurity consultant / information security analyst / system security engineer / system security architect

ENTRY REQUIREMENTS

Bachelor degree or equivalent qualification in information technology or a related discipline.

Note: Applicants who have completed a bachelor degree or higher in any discipline may also be considered for entry based upon their IT expertise gained through formal tertiary studies and/or relevant work experience. These applicants are required to submit a detailed curriculum vitae and may be required to attend an interview, either in-person or online.

RELATED DEGREES

· Master of Data Science
· Master of Information Technology (Enterprise Management)
· Master of Information Management

FURTHER STUDY

· Masters by Research
· Doctor of Philosophy (PhD)

PROGRAM STRUCTURE

FIRST YEAR
IT Concepts
Network Infrastructure
Security Principles
Security Operations
Research Methods
Network Security
Operating Systems and Application Security
Web and Cloud Security

SECOND YEAR
Digital Forensics Essentials
Industrial Internet Security
Enterprise Security
Cybersecurity Planning and Compliance
Security Consultancy
Security Architecture
Capstone Professional Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Campus: CE: City East, CW: City West, M: Magill,
ML: Mawson Lakes, MG: Mount Gambier or W: Whyalla C

Full-time program
duration in years 1   Part-time study
available PT   Commonwealth-supported
(see page 2O for more info) CSP

Master of

INFORMATION TECHNOLOGY (ENTERPRISE MANAGEMENT) LMIG

NESTED WITH

- Graduate Certificate in Information Technology (LCIG)
- Graduate Diploma in Information Technology (Enterprise Management) (LGIG)

ON-CAMPUS/ONLINE **ML** **2** **PT** *unisa.edu.au/IT*

ENTRY

SATAC code........................(Master) 4CM133
................................(GradCert) 4GCO78
................................(GradDip) 4GD1O3
Fees *(in 2018)*..........................A$25,OOO pa
Start date(s)..........................February, July

Get up to speed with the latest trends and developments in enterprise-wide IT.

Learn the critical systems analysis and design skills required of a business analyst.

Focus on business intelligence along with the daily operation and management of complex information systems.

Develop project management expertise and the skills to liaise with key stakeholders in an IT context.

Choose to tailor your studies through a wide range of elective courses in information systems, information technology, business and management.

Complete a major project in your final year working with a structured project team.

CAREER OPPORTUNITIES

Software programmer / applications programmer / business and systems analyst / ICT manager / ICT network and support manager / solutions architect

PROFESSIONAL ACCREDITATION

This program is professionally accredited by the Australian Computer Society.

ENTRY REQUIREMENTS

- Bachelor degree in any discipline from a recognised higher education institution or equivalent qualification; or
- Graduate certificate in information technology, or equivalent qualification, from a recognised higher education institution; or
- Graduate diploma in information technology, or equivalent qualification, from a recognised higher education institution.

RELATED DEGREES

- Master of Cybersecurity
- Master of Data Science
- Master of Information Management

FURTHER STUDY

- Masters by Research
- Doctor of Philosophy (PhD)

PROGRAM STRUCTURE

FIRST YEAR
IT Concepts
Business Practices for IT Professionals
Project Management for IT Professionals
Business Systems Analysis
Business Intelligence and Analytics
Security Principles
Professional Communication
Elective 1

SECOND YEAR
Research Methods
Business Process Modelling
IT Stakeholder Engagement
Elective 2
Enterprise Architecture
Information Governance
Capstone Professional Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Master of

INFORMATION MANAGEMENT DMIL

DEGREES

- Master of Information Management (Library and Information Management)
- Master of Information Management (Archives and Records Management)

NESTED WITH

- Graduate Certificate in Information Management (DCIL)
- Graduate Diploma in Information Management (Library and Information Management) (DGIL)
- Graduate Diploma in Information Management (Archives and Records Management) (DGIL)

ON-CAMPUS/ONLINE **CW** **2** **PT** *unisa.edu.au/IT*

ENTRY

SATAC code..
................(Library and Information) 4CM134
..................(Archives and Records) 4CM135
................................(GradCert) 4GCO79
................(GradDip Library and Information
................................Management) 4GD1O4
................(GradDip Archives and Records
................................Management) 4GD1O5
Fees..CSP
Start date(s)..........................February, July

Study one of South Australia's only information management qualifications.

Build the advanced skills required for librarians and information officers through the Library and Information Management program.

Develop the advanced and unique skills required for archiving and information preservation through the Archives and Records Management program.

Gain practical experience through a real-world fieldwork project and a four-week placement within a library.

Benefit from curriculum developed in conjunction with the State Library of South Australia and the State Records of South Australia.

Take advantage of flexible learning options including part-time and online study.

CAREER OPPORTUNITIES

Librarian / records manager / archivist / information management officer / preservation manager

PROFESSIONAL ACCREDITATION

LIBRARY AND INFORMATION MANAGEMENT

This program is professionally accredited by the Records and Information Management Professionals Australasia and has been granted Australian Library and Information Association (ALIA) Gold reaccreditation.

ARCHIVES AND RECORDS MANAGEMENT

This program is professionally accredited by the Records and Information Management Professionals Australasia and the Australian Society of Archivists.

ENTRY REQUIREMENTS

- Bachelor degree in any discipline from a recognised higher education institution; or
- Graduate diploma in information management from a recognised higher education institution.

FURTHER STUDY

- Masters by Research
- Doctor of Philosophy (PhD)

PROGRAM STRUCTURE

INDICATIVE OF LIBRARY AND INFORMATION MANAGEMENT
FIRST YEAR
Accessing Resources
Organising Resources
Information Management Professional Practice
Technological Foundations
Managing Collections
Information Management Experience Reports
Information Management Foundations
Information Management Project
Information Behaviour and Literacy OR Reading and Readers' Advisory

SECOND YEAR WITH RESEARCH PROJECT
Research Methods
Elective 1
Elective 2
Capstone Professional Project
Elective 3
Elective 4

SECOND YEAR WITH MINOR THESIS
Research Methods
ITMS Masters Minor Thesis 1
ITMS Masters Minor Thesis 2
Elective 1
Elective 2

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

Campus: CE: City East, CW: City West, M: Magill,
ML: Mawson Lakes, MG: Mount Gambier or W: Whyalla **C**

Full-time program
duration in years **1**   Part-time study
available **PT**   Commonwealth-supported
(see page 20 for more info) CSP

Master of

DATA SCIENCE LMDS

NESTED WITH

- Graduate Certificate in Data Science (LCDS)
- Graduate Diploma in Data Science (LGDS)

ON-CAMPUS/ONLINE **ML** **2** **PT** *unisa.edu.au/science*

ENTRY

SATAC code........................*(Master)* 4CM128
....*(GradCert)* 4GCO77
....*(GradDip)* 4GD100
Fees *(in 2018)*...........................A$27,900 pa
Start date(s)...........................February, July

Enter the revolutionary field of big data where there is a growing demand for qualified data scientists.

Build strong foundation skills in data and statistics such as big data basics, statistical programming, and relational database systems and warehouses.

Learn to analyse and visualise rich data sources, how to spot data trends, and to generate data management strategies.

Complete coursework designed with industry including the Institute of Analytics Professionals of Australia and the leader in business analytics and software — SAS.

Undertake a professional project in your final year, gaining practical experience in modern data techniques and practices.

CAREER OPPORTUNITIES

Big data visualiser / data scientist / business data analyst / information security analyst

ENTRY REQUIREMENTS

- Bachelor degree in information technology or mathematics from a recognised higher education institution; or
- Graduate diploma or graduate certificate in data science from a recognised higher education institution.

RELATED DEGREES

- Master of Cybersecurity
- Master of Information Technology (Enterprise Management)

PROGRAM STRUCTURE

FIRST YEAR
Big Data Basics
Statistical Programming for Data Science
Two of the following four courses:
· Statistics for Data Science
· Probabilities and Data
· Relational Databases and Warehouses
· Business Intelligence and Analytics
Predictive Analytics
Unsupervised Methods in Analytics
Research Methods
Data Visualisation

SECOND YEAR
Social Media Data Analytics
Customer Analytics in Large Organisations
Data Science Professional Development 2
Advanced Analytic Techniques 1
Advanced Analytic Techniques 2
Capstone Professional Project

Students may be required to undertake a combination of on-campus or online study. Students may be required to attend on-campus lectures, tutorials and practicals.

> Fascinated by big data, Richard was determined to advance his skills in statistics and programming.
>
> "For me it was an opportunity to re-train; to learn a new discipline that encompasses amazing statistical techniques that use some incredibly advanced technology. This is obviously a discipline on the rise and it's rapidly evolving."
>
> Richard chose to study at UniSA because it was one of the first universities in Australia to offer formal coursework in data science.
>
> "I now have tangible skills in multiple programming languages and models that I can adopt to various situations, forming part of a data toolkit that I can take anywhere."

Richard Shanahan / MASTER OF DATA SCIENCE

RESEARCH

Make a lasting contribution to your field through a research degree.

QUALIFICATIONS*

- Masters by Research: 2 years^
- Doctor of Philosophy (PhD): 4 years^

*study times are approximate and based on a full-time study load.
^in total including examination time. Candidates must be prepared to submit 6-12 months prior to official completion of their program.

FIND OUT MORE

unisa.edu.au/resdegrees

ENTRY REQUIREMENTS

unisa.edu.au/resdegrees-eligibility

HOW TO APPLY

unisa.edu.au/apply

Masters by

RESEARCH LMIE

Doctor of

PHILOSOPHY (PhD) LPHD

DIVISION OF INFORMATION TECHNOLOGY, ENGINEERING AND THE ENVIRONMENT

SCHOOL OF ENGINEERING

SCHOOL OF INFORMATION TECHNOLOGY AND MATHEMATICAL SCIENCES

SCHOOL OF NATURAL AND BUILT ENVIRONMENTS

Contribute to the progress of science and technology by investigating a topic of interest.

Flourish in a technological hub of theoretical, applied and cross-disciplinary research.

Benefit from links to the University's multi-million dollar Future Industries Institute — aimed at transforming the industries of today and seeding the industries of tomorrow.

Work alongside world-class supervisors on industry-based projects focused on meeting the challenges of modern enterprise.

DISCIPLINE AREAS

- Applied Physics
- Bioinformatics
- Biomaterials Engineering and Nanomedicine
- Civil Engineering
- Computer and Information Science
- Construction Management
- Electrical Engineering
- Energy and Advanced Manufacturing
- Environmental Science
- Environmental Science and Engineering
- Geographic Information Science
- Information and Communication Technology
- Mathematics
- Mechanical Engineering
- Minerals and Resources
- Statistics
- Systems Engineering

ENTRY REQUIREMENTS

MASTERS BY RESEARCH:

- Bachelor degree of at least three years with a minimum credit average in a relevant discipline; or
- No tertiary qualifications (some discipline areas only) with demonstration of research capabilities via assessment of relevant quality publications and professional experience.

DOCTOR OF PHILOSOPHY (PhD):

- Honours 1, Honours 2A or an appropriate master degree or equivalent.

ALTERNATIVE ENTRY

Other postgraduate and undergraduate degrees may be considered for admission into the Masters by Research or Doctor of Philosophy (PhD) with demonstration of research capabilities via assessment of relevant quality publications and professional experience.

Note: Eligibility for entry into a research program is also subject to an assessment of the proposed research, supervisor availability, and any school or research-specific eligibility requirements.

STUDY AT UniSA – THE BASICS

Minimum entry requirements for undergraduate bachelor and associate degrees

APPLYING WITH YEAR 12

Applicants are required to have successfully completed the South Australian Certificate of Education (SACE) with:

- a competitive Selection Rank (ATAR); AND
- the fulfilment of the program's prerequisite requirements (where applicable).

Applicants may also be eligible to compete for entry if they have completed the program's prerequisite requirements and have completed one of the following:

- an interstate or overseas qualification considered by the University as equivalent to SACE; or
- the International Baccalaureate Diploma with a minimum score of 24 points.

ADJUSTMENT FACTORS

Universities in South Australia include ATAR-related adjustment factors (previously known as bonus points) to Australian high school students applying for entry into university via the following schemes:

- **The Universities Equity Scheme** – provides additional points for students coming from specified schools, as well as individuals experiencing disadvantage.
- **The Universities Language, Literacy and Mathematics Adjustment Scheme** – provides additional points for students who successfully complete a language other than English, or specified English and Mathematics subjects.

Need some help? Visit *unisa.edu.au/adjustmentfactors* or contact Future Student Enquiries on (O8) 83O2 2376 or submit an enquiry via *unisa.edu.au/enquire*

GUARANTEED ENTRY

UniSA offers guaranteed entry into many programs for domestic Year 12 and VET students. If your Selection Rank (ATAR) or VET award meets the UniSA Guaranteed Entry score for that program, you have met the prerequisites and any other program specific entry requirements, and you have listed the program as your first preference, you are in. It's guaranteed.

unisa.edu.au/guaranteed

ADMISSIONS PATHWAYS

Entering your chosen program straight from high school is not the only pathway into UniSA. Applicants may also meet the minimum requirements to apply for entry (via competitive selection) through one of the following pathways.

Higher Education Study – completion of at least half a year of full-time equivalent study, at UniSA or a recognised higher education institution. You can apply using your Grade Point Average (GPA).

Higher Education Diploma – completion of a higher education diploma, from the UniSA College (applicable programs listed on each bachelor program in this guide), the South Australian Institute of Business and Technology (SAIBT), or another recognised higher education institution.

Special Entry – a competitive Special Tertiary Admissions Test (STAT) score. A personal competencies statement or employment experience may also be considered for some programs.

Vocational Education Training (VET) – applicants may be eligible for entry with the completion of an award from TAFE or another Registered Training Organisation at AQF Certificate IV or above.

UniSA College – there are a variety of pathway options offered through UniSA College including diplomas and the Foundation Studies program.

Alternative Pathways – there are a range of alternative pathways including bridging qualifications offered through SAIBT and Eynesbury.

Open Universities Australia – completion of at least four Open Universities Australia (OUA) courses at an undergraduate level or higher.

unisa.edu.au/pathways

BEFORE APPLYING

All applicants should check and ensure that they meet all entry and prerequisite requirements before applying. For more information on entry requirements, visit:

unisa.edu.au/study

SUPPORT SERVICES

UniSA offers services to assist rural and/or socio-economically disadvantaged students, Aboriginal and Torres Strait Islander people, and people with a disability. For more information, contact (O8) 83O2 2376 or visit:

unisa.edu.au/studentservices

SCHOLARSHIPS

UniSA offers a range of scholarships and grants to support students from all walks of life. Each year, 25OO students benefit from scholarships at UniSA, providing financial assistance as well as valuable work experience, mentoring opportunities and even overseas travel. For more information and to check the eligibility criteria, visit:

unisa.edu.au/scholarships

HOW TO APPLY TO THE UNIVERSITY OF SOUTH AUSTRALIA

Applications to most programs at UniSA are administered through the South Australian Tertiary Admission Centre (SATAC). For more information visit:

unisa.edu.au/apply

FEES

All domestic undergraduate students at the University of South Australia are in Commonwealth-supported places. Students in these places pay a contribution of their fees depending on the program chosen and the contribution band in which those courses are classified (see table below). The amount of your student contribution also depends on the unit value of your courses of study.

As per the Australian Government guidelines, the student contribution amounts for 2O18 are:

BAND	AREA OF STUDY	STUDENT CONTRIBUTION *For one year of full-time load (1 EFTSL)*
1	Humanities, behavioural science, social studies, foreign languages, visual and performing arts, clinical psychology, nursing and education	$6,444
2	Computing, built environment, health, engineering, surveying, agriculture, Mathematics, statistics, science	$9,185
3	Law, dentistry, medicine, veterinary science, accounting, administration, economics, commerce	$1O,754

Some postgraduate programs are also Commonwealth-supported (or CSP), while others are full fee-paying (the fees for these are listed on each applicable program in this guide and are based on an equivalent full-time student load). For more information on fees including eligibility for Commonwealth-supported places, deferring your student contribution through HECS-HELP, FEE-HELP loans, or fee information relating to international students please visit:

unisa.edu.au/fees

INDUSTRY *insight*

"Successful careers are built on a foundation of knowledge, application and the development of lifelong learning skills. Degree programs that are industry informed develop both foundational and domain based knowledge in the context of their real world application. This combination helps you understand the career options available and how your knowledge and skills can take you there."

Dino Rossi / CHIEF TECHNOLOGIST / DXC TECHNOLOGY

Stay in touch

Sign up to receive updates directly to your inbox and keep up to date with the latest information including:

Invitations to career events and information sessions / competition alerts / insights into life on campus from students and teachers / updates on new degrees / scholarship opportunities / breaking industry and career news

unisa.edu.au/stayintouch

Acknowledgement of Country

UniSA respects the Kaurna, Boandik and Barngarla peoples' spiritual relationship with their country. We also acknowledge the diversity of Aboriginal peoples, past and present.

Find out more about the University's commitment to reconciliation at unisa.edu.au/RAP

Artist: Rikurani

2018 EVENTS

Our events give you the opportunity to ask questions about different degrees and careers, take a tour around campus, attend presentations, and talk to current staff and students.

UniSA OPEN DAY

Sunday 12 August / 9:00am–4:30pm / City West Campus and City East Campus

CAMPUS DAYS

Magill@Twilight
Wednesday 29 August / 4:00pm–8:00pm / Magill Campus

Mawson Lakes Campus Day
Tuesday 28 August / 4:00pm–7:30pm / Mawson Lakes Campus

Mount Gambier Open Day
Sunday 5 August / 11:00am–4:00pm / Mount Gambier Campus

Whyalla Open Day
Sunday 26 August / 11:00am–3:00pm / Whyalla Campus

unisa.edu.au/openday

Australia's University of Enterprise

**University of
South Australia**