



Bachelor of Information Technology



Kia ora, Welcome!

Whitireia and Weltec are pleased to offer a new IT degree in 2019. The degree was designed with the IT industry to ensure our graduates are well-prepared with the skills required for the 21st century. You'll spend half of your final year working on an industry project.

Specialise in Applied Data Science, Cyber Security, Interaction Design, Networking and Infrastructure or Software Development.

This degree has been accredited by the industry, represented by IT Professionals New Zealand.

**Majors available subject to demand*

ENTRY CRITERIA

- NCEA Level 3 with at least 14 credits in each of 3 subjects
- Literacy - 10 credits at Level 2 or above, made up of 5 credits in reading and 5 credits in writing
- Numeracy - 10 credits at Level 1 or above, or
- Any qualification (New Zealand or overseas) recognised by NZQA as being equivalent to the achievement of NCEA Level 3

ENGLISH LANGUAGE REQUIREMENTS

IELTS 6.0 Academic (with no band score lower than 5.5) or equivalent.

BIT, School of IT and Business

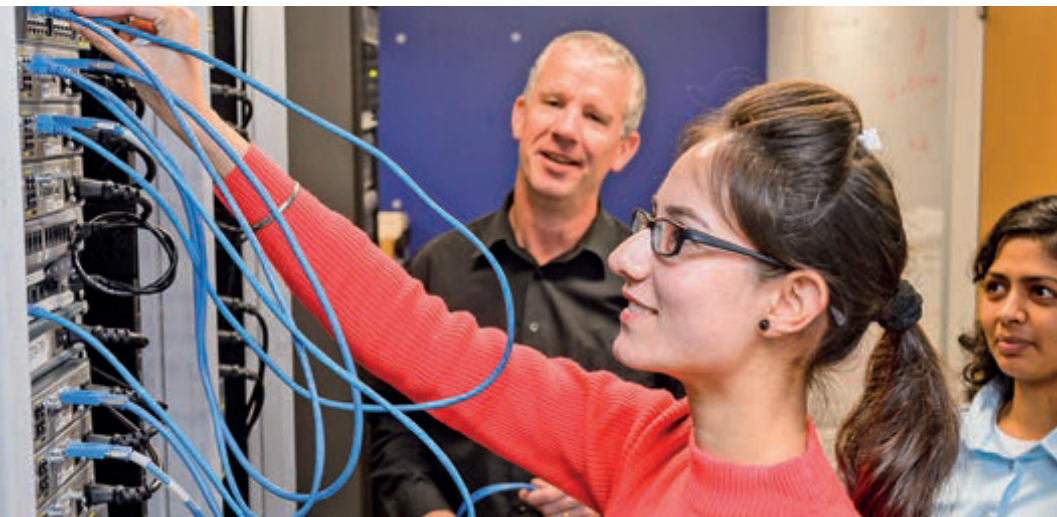
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international@whitireia.ac.nz
international@weltec.ac.nz



whitireiaweltec.ac.nz



MAJORS

Applied Data Science (offered at Porirua)

Data Science is a rapidly growing field. Companies and organisations use data to support strategic decision making, solve problems and gain a competitive edge. Learn to apply technology to make the most of data.

- Understand the concepts of business intelligence and data mining
- Gain skills in information systems management
- Build data science solutions
- Design, implement and query complex databases
- Create and validate business analytical models
- Communicate data analysis through visualisation and stories

Cyber Security (offered at Petone)

Manage risks involved with organisational technology. Protect data and systems. Security specialists are in high demand within government, commercial and banking sectors.

- Gain an understanding of security fundamentals and forensics
- Learn to perform security risk management and vulnerability assessment
- Design and develop security policies and controls
- Respond to security breaches using technical controls and forensic techniques
- Plan and implement security testing

Networking and Infrastructure (offered at Petone)

Gain an advanced qualification relevant to the fast-changing demands of industry. Develop skills in Cisco, Linux and Microsoft network support. Learn in specialised labs and facilities.

- Learn networking fundamentals
- Plan and document network infrastructure
- Implement and support computer networks and management systems
- Gain skills to diagnose and resolve problems using network technologies and procedures
- Build an in-depth understanding of wireless technologies

Software Development (offered at Whitireia Porirua and WelTec Petone)

Software developers create IT solutions using a range of codes and languages. Further your talent for problem-solving. Develop logic and analytical skills. Work in New Zealand and around the world.

- Learn about software design, development and maintenance
- Become proficient in a variety of programming languages
- Design and develop software applications
- Gain skills in testing and maintenance
- Understand logic methods and problem analysis
- Learn modelling techniques
- Work with commercial software applications

Interaction Design (offered at Porirua and Petone)

- Define the meanings of Human-Computer Interaction and User Experience Design
- Scope and select appropriate technologies to solve user centred problems
- Evaluate and develop effective user experiences that use technology to enhance a wide range of human activities
- Design and create a range of interfaces for a variety of devices, which synthesise the high levels of interactivity
- Understand the process of interaction design, including, fieldwork, requirements elicitation, prototyping, evaluation frameworks and testing
- Analyse ways that user interfaces effectively relate to users' characteristics considering characteristics such as age, education, culture and ability.

No Major

Design your Bachelor of Information Technology (offered at Porirua and Petone). Customise your degree and choose the courses that most interest you.

COURSE STRUCTURE

In order to be awarded the Bachelor of Information Technology, a learner must successfully pass courses to a total of **360 credits**, with a minimum of **90 credits** at level 7 and a maximum of **135 credits** at level 5.

Year One - Level 5	Year Two - Level 6	Year Three - Level 7
Mathematics for IT 15 Credits, Course IT5501	Mathematics for IT 15 Credits, Course IT5501	Mathematics for IT 15 Credits, Course IT5501
Communications for IT 15 Credits, Course IT5502	Communications for IT 15 Credits, Course IT5502	Communications for IT 15 Credits, Course IT5502
Major Course 15 credits, Course IT550x	Major Course 15 credits, Course xx6501	Major Course 15 credits, Course xx7501
	Major Course 2 15 credits, Course xx6502	Major Course 2 15 credits, Course xx7502
Elective Credit 90 credits, Level 5-7	Major Course 3 15 credits, Course xx6503	
Elective Courses 45 credits, Level 6-7	Major Course 4 15 credits, Course xx6504	

MAJOR COURSES

Cyber Security

- Information Security 1, IT5504
- Information Security 2, CS6501
- Linux System Administration, CS6502
- Digital Forensics, CS6503
- Cryptography and Blockchain Fundamentals, CS6504
- Information Security 3, CS7501
- Special Topic in Security, CS7501

Applied Data Science

- Fundamentals of Data Science, IT5507
- Social Data Analytics, DS6501
- Data Analysis and Design, DS6502
- Data Mining Tools and Techniques, DS6503
- Business Intelligence and Big Data, DS6504
- Data Mining for Business Analytics, DS7501
- Data Warehouse Design and Implementation, DS750

Software Development

- Programming 1, IT5503
- Mobile Application Development, SD6501
- Programming 2, SD6502
- Testing and Secure Coding, SD6503
- Game Development, SD6504
- Web Application Development, SD7501
- Intelligent Systems Development, SD7502

Interaction Design

- Interaction Design Fundamentals, IT5505
- Responsive Website Design, ID6501
- 3D Environments, ID6502
- Advanced Interaction Design, ID6503
- User Interface and User Experience, ID6504
- Advanced Interface Technologies, ID7501
- Human Computer Interaction, ID7502

Networking and Infrastructure

- Introduction to Networking, IT5506
- Networking 2 – LAN, NI6501
- Networking 3 – Campus, NI6502
- Network Infrastructure Support, NI6503
- Cloud Computing, NI6504
- Current topic in Networking and Infrastructure, NI7501
- Emerging topic in Networking and Infrastructure, NI7502

KEY INFORMATION



Qualification

Bachelor of Information Technology



2021 Start Dates

1 March, 12 July



Campuses

WelTec Petone, Whitireia Porirua



Duration

3 Years



NZQA Level

Level 7



Credits

360 credits



Fees

NZD 19,250 (excludes an additional annual fee of \$220 for administration and \$560 coverage under Whitireia and WelTec's default medical and travel insurance, provided by Uni-Care International)

CONTACT US



international@whitireia.ac.nz
international@weltec.ac.nz



whitireiaweltec.ac.nz



Whitireia
NEW ZEALAND



WelTec