

Level 7 – CH3880 Graduate Diploma in Information & Communication Technologies (GradDipICT) – 2020



How is the Graduate Diploma structured and what credits are required?

Students can complete the Graduate Diploma in ICT in 1 year (2 semesters) but in some cases, completing it over 3 semesters is recommended. When you apply to enrol, academic staff will review your background knowledge and skills, consider what you hope to achieve by doing the Graduate Diploma and will then advise you whether a 2 or 3 semester pathway is recommended.

To gain the Graduate Diploma you must successfully complete a minimum of 120 credits – at least 75 of these credits **must** be at level 7 but the remaining credits may come from Level 5 or Level 6 courses. The level 7 credits **must** include the compulsory course BCIS30 (15 credits) and either BCIS370 (30 credits) or BCCE301 (45 credits).

Front-end Programming (2 semester pathway)

Requirements:

- Preferably a degree in Information Technology or IT applications, however holders of other degrees may apply
- Exposure to basic programming concepts

1st Semester	BCIS301 Management of ICT (Level 7)	BCDE101 Introduction to Programming (Level 5)	BCDE103 Database Design (Level 5)	BCIT388 Mobile Technology (Level 7)
2nd Semester	BCIS370 IT Industry Practice (Level 7)		BCDE213* Interactive Media Development (Level 6)	BCIS302 Managing Info & Cybersecurity (Level 7)

* Could do BCDE215 Web Development (Level 6) instead of BCDE213

Networking (2 semester pathway)

Requirements:

- Pathway suitable for applicants with sufficient experience/exposure to networking field
- A degree in Information Technology, Computer Science or a similar field of study
- Exposure to advanced networking concepts – throughout studies
- Some industry experience or industry certifications (e.g. Cisco or Microsoft)

1st Semester	BCIS301 Management of ICT (Level 7)	BCCS199* Operating Systems (Level 5)	BCCS283 Network Infrastructure (Level 6)	BCCS253* Directory Services (Level 6)
2nd Semester	BCIS370 IT Industry Practice (Level 7)		BCCS355 Cloud Services (Level 7)	BCIS302 Managing Info & Cybersecurity (Level 7)

* Could do BCCS191 Introduction to Networks (Level 5) instead of BCCS199 and/or BCCS254 System Infrastructure (Level 6) instead of BCCS253

Information Systems, Strategies and Solutions (2 semester pathway)

(IT in Business, IT Business Analysis, Quality Assurance and Testing)

Requirements:

- Preferably a degree in Information Technology or IT applications, however, holders of other degrees may apply
- Exposure to basic IT concepts is a significant advantage

1st Semester	BCIS301 Management of ICT (Level 7)	BCDE101 Introduction to Programming (Level 5)	BCIS208 IT Service Management (Level 6)	BCIS290 Intro. to Business Analysis (Level 6)
2nd Semester	BCIS370 IT Industry Practice (Level 7)		BCIS302 Managing Info & Cybersecurity (Level 7)	BCIS321 Special topic in Information Systems (Level 7)

Cybersecurity (2 semester pathway)

Requirements:

- A degree in Information Technology, Computer Science or a similar field of study
- Must have Cisco Certified Network Associate 1 (CCNA1) certification, otherwise need to do 3 semester pathway

1st Semester	BCIS301 Management of ICT (Level 7)	BCCS292 Routing & Switching Essentials (Level 6)	DNET601 Wireless Local Area Networks (Level 6)	BCIT388 Mobile Technology (Level 7)
2nd Semester	BCIS370 IT Industry Practice (Level 7)		DNET602 Network Security (Level 6)	BCIS302 Managing Info & Cybersecurity (Level 7)

Three semester pathways

The option to study over three semesters is recommended in the following situations:

- Your previous academic performance indicates that a preparatory semester is needed to provide you with a much improved likelihood of completing the programme with success.
- Your previous exposure to Information Technology is not sufficient to be eligible to enter a one year programme in a specialist field.
- You will benefit from studying in English for a semester to improve likelihood of success.
- You insist on completing a technical specialisation without having been exposed to sufficient previous technical and applied studies and work.
- The general conditions stated in the one year (2 semester) options still apply to the following pathways.

Programming (3 semester pathway)

1st Semester	BCDE101 Introduction to Programming (Level 5)	BCDE103 Database Design (Level 5)	BCIS303 Information Technology Governance (Level 7)	BCIT388 Mobile Technology (Level 7)
2nd Semester	BCDE211 Best Programming Practices (Web & Mobile Dev) (Level 6)	BCDE214 Database Administration (Level 6)	BCDE213 Interactive Media Development (Level 6)	BCDE224 Server Side Web Programming (PHP) (Level 6)
3rd Semester	BCIS370 IT Industry Practice (Level 7)		BCDE321 Advanced Programming (Level 7)	BCDE215 Web Development (Level 6)

Networking (3 semester pathway)

1st Semester	BCCS153 Computer Systems Architecture (Level 5)	BCCS199 Operating Systems (Level 5)	BCCS191 Introduction to Networks (Level 5)	BCDE101 Introduction to Programming (Level 5)
2nd Semester	BCIS303 Information Technology Governance (Level 7)	BCCS283 Network Infrastructure (Level 6)	BCCS253* Directory Services (Level 6)	BCCS254 System Infrastructure (Level 6)
3rd Semester	BCIS370 IT Industry Practice (Level 7)		BCCS355 Cloud Services (Level 7)	BCIS302 Managing Info & Cybersecurity (Level 7)

* Could do BCCS292 Routing & Switching Essentials (Level 6) instead of BCCS253

Cybersecurity (3 semester pathway)

1st Semester	BCCS153 Computer Systems Architecture (Level 5)	BCCS199 Operating Systems (Level 5)	BCCS191 Introduction to Networks (Level 5)	BCIS208 IT Service Management (Level 6)
2nd Semester	BCIS303 Information Technology Governance (Level 7)	BCCS292 Routing & Switching Essentials (Level 6)	DNET601 Wireless LANs (Level 6)	BCIS302 Managing Info & Cybersecurity (Level 7)
3rd Semester	BCIS370 IT Industry Practice (Level 7)		DNET602 Network Security (Level 6)	BCIS313* Enterprise Intel. Analytics (Level 7)

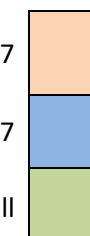
* Could do BCIS390 Business Analysis (Level 7) or BCIT388 Mobile Technology (Level 7) instead of BCIS313

Colour code

Compulsory Level 7 courses – provide 45 of the 75 credits required at Level 7

Recommended Level 7 electives – provide the other 30 of the 75 credits required at Level 7

Recommended Level 5 or 6 electives – provide the other 45 of the 120 credits required overall



Note: Three semester pathway students who achieve good grades across all courses in their first two semesters and gain the approval of the Academic Leader can replace BCIS370 and another course (possibly at Level 7) with the 45 credit industry project course BCCE301 in their final semester

For advice about these pathways contact:

- Mehdi Asgarkhani (Academic Leader) – ph 03 940 8126, email mehdi.asgarkhani@ara.ac.nz; or
- Sandy Thomas (Department Administrator) to make an appointment with Mehdi – ph 03 940 8302, email sandy.thomas@ara.ac.nz