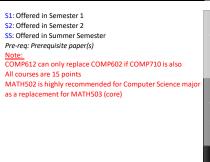
Bachelor of Computer and Information Sciences BCIS 2024

| | | District Commission | Naturalis and Calcuration | C-ft | Data Calana | 6 |
|--------|-------|---|--|---|---|---|
| | | Digital Services | Networks and Cybersecurity | Software Development | Data Science | Computer Science |
| Year 1 | CORE | COMP500 Programming Concepts and Techniques (S1, S2, SS) COMP501 Computing Technology in Society (S1, S2) DIGD507 Mahi Tahi: Collaborative Practices (S1, S2) | | | | |
| | | Choose one: MATH502 Algebra and Discrete Mathematics (S2), or MATH503 Mathematics for Computing (S1, S2, SS) | | | | |
| | | | | COMP507 IT Project Management (S1, S2) COMP508 Database System Design (S1, S2) | | |
| | | INFS502 Digital Services in IT (S2) | | CONFISOR Database System Design (31, 32) | | |
| | | IN 3502 Digital Services III 11 (32) | COMP504 Networks and Internet (S1, S2) | | | |
| | MAJOR | 8 | | COMP503 Object Oriented Programming Programming (S1, S2) Pre-reg: COMP500/ENSE501 | | COMP503 Object Oriented Programming (S1, S2) Pre-req: COMP500/ENSE501 |
| | | | | | COMP517 Data Analysis (S2) | |
| Year 2 | MAJOR | INFS603 Needs Analysis, Acquisition and Training (S1) | COMP604 Operating Systems (\$2) Pre-req: [COMP503/ENSE502/ENSE504] or COMP504 | COMP603 Program Design and Construction (\$1, \$2) Pre-req: COMP503/COMP610/ENSE502 | COMP615 Foundations of Data Science (S1) Pre-req: COMP517 | COMP610 Data Structures and Algorithms (S1, S2) Pre-req: COMP503/ENSE502/ENSE602 |
| | | INFS604 Service Modelling (S1) | COMP607 Information Security Technologies (S2) Pre-req: COMP501 | COMP610 Data Structures and Algorithms (\$1, \$2) Pre-req: COMP503/ENSE502/ENSE602 | COMP616 Statistics for Data Science (S1) Pre-req: MATH502 or MATH503 | COMP611 Algorithm Design and Analysis (S2) Pre-req: COMP610 |
| | | INFS605 Microservices (S2) | COMP609 Network and System Administration (S1) Pre-req: COMP500 and COMP504 | COMP602 Software Development Practice (S1, S2) Pre-req: COMP603 or COMP610 (or) COMP612 Computer Graphics Programming (S2) [MATH503 or MATH502] and [COMP603 or COMP610] | STAT603 Forecasting (S2) Pre-req: MATH502 or MATH503 | COMP613 Combinatorics and Graph Theory (S1) Pre-req: COMP500 and [MATH502 or MATH503] |
| | | COMP603 Program Design and Construction (S1, S2) Pre-req: COMP503/COMP610/ENSE502 (or) COMP607 Information Security Technologies (S2) Pre-req: COMP501 | ENEL611 Computer Network Applications (S1) Pre-req: COMP504 or ENEL504 | COMP604 Operating Systems (\$2) [COMP503/ENSE502/ENSE504] or COMP504 (or) COMP611 Algorithm Design and Analysis (\$2) Pre-req: COMP610 | COMP610 Data Structures and Algorithms (S1, S2) Pre-req: COMP503/ENSE502/ENSE602 (or) COMP613 Combinatorics and Graph Theory (S1) Pre-req: COMP500 and [MATH502 or MATH503] | COMP604 Operating Systems (52) Pre-req: [COMP503/ENSE502/ENSE504] or COMP504 (or) COMP612 Computer Graphics Programming (52) Pre-req: [MATH503 or MATH502] and [COMP603 or COMP610] |
| | | COMP702 Research and Development Project (Part 1) (S1 | ., 52) | | | |
| Year 3 | CORE | COMP703 Research and Development Project (Part 2) (S1 | ., S2) | | | |
| | MAJOR | INFS704 Service Innovation and Design (S1) | COMP715 Network Security (S2) Pre-req: ENEL611 | COMP719 Applied Human Computer Interaction (S1) | COMP717 Artificial Intelligence (S1) Pre-req: COMP500 or equivalent; 60 points at level 6 major | COMP711 Theory of Computation (S2) Pre-req: COMP610 or COMP613 |
| | | COMP718 Information Security Management (S1) | COMP714 Advanced Network Technologies (S2) Pre-req: COMP609 (or) COMP729 Enterprise Networks (S2) Pre-req: COMP504/ENEL504 | ENSE701 Contemporary Issues in Software Engineering (S2) Pre-req: COMP603 or [COMP610/ENSE600] | COMP723 Data Mining and Knowledge Engineering (S2) | COMP712 Programming Languages (S2) Pre-req: COMP603/ENSE502 |
| | | COMP728 IoT and Applications (S2) (or) COMP726 Blockchains and Cryptocurrencies (S2) | COMP716 Highly Secure Systems (S1) Pre-req: COMP611 or [ENGE501 and COMP610] (or) COMP718 Information Security Management (S1) | COMP713 Distributed and Mobile Systems (not running) Pre-req: COMP611 (or) COMP721 Web Development (S1) Pre-req: COMP603/ENSE600 (or) COMP710 Game Programming (not running) Pre-req: COMP612 | COMP700 Text and Vision Intelligence (S2) (or) COMP701 Nature Inspired Computing Pre-req: COMP500 (S1) | COMP713 Distributed and Mobile Systems (not running) (or) COMP719 Applied Human Computer Interaction (S1 |



Flexible Core component **BCIS** Major papers 120 120 points papers 120 (8 papers of points points (8 white any colour) (8 colour colour papers) papers) **Choose one** option

Addional (double) Major 120 points

Addional (double) Major 120 points

(from within the School, or from other degrees at AUT)

First Minor 60 points + Second Minor 60 points
(from within the School, or from other degrees at AUT)

First Minor 60 points + Electives 60 points
(from within the School, or from other degrees at AUT)