Computing & Information Technology

Subject Selection and Tertiary Course Entrance Information

This information has been prepared from brochures, newsletters, etc. supplied by tertiary institutions and is correct at the time of writing. However, the institutions frequently alter their criteria so it is strongly advised that you check the details with the relevant institution. *There may be different admission requirements for various groups of students e.g. Maori, Pacific, International, Disabled, etc. Individual students should check for details.* November 2016

University Entrance Standard under NCEA: *Entry requires 14 credits at Level 3 in three approved subjects, plus NCEA Level 3, plus literacy (5 Level 2 Reading and 5 Level 2 Writing) and numeracy (10 Level 1 Maths) requirements. Further details are available on request.*

Calculation of Ranked Scores under NCEA: *Excellence credits are awarded 4 points, Merit credits 3 points and Achieved credits 2 points. This applies to the best 80 Level 3 credits in 5 approved subjects, with a maximum of 24 credits for each subject.*

Recommended:	This means it is not essential to take the subjects to gain entry to a course, but it is often difficult to succeed without some prior knowledge.
Pre-requisite:	Essential to gain entry to a course.
Limited Entry:	This course has a limit to the number of students it can take in any one year, but this should not act as a deterrent if a sufficient standard has been reached.

University of Auckland

Bachelor of Science (Majoring in Computer Science) (3 years)

Recommended:	Previous experience with computers is not essential. Maths with Calculus and a language rich subject at Level 3 NCEA are recommended and Physics is useful.
2017 entry:	In addition to standard University Entrance (see above) and an additional academic English requirement NCEA applicants will be assigned a rank order based on the best 80 credits at Level 3 or higher over a maximum of 5 approved subjects, weighted by the level of achievement attained in each set of credits. A total of 165 will guarantee entry.

Bachelor of Engineering (Honours): Software Engineering and Computer Systems Engineering (4 years)

Pre-requisite:	Students <u>must</u> take Calculus and Physics for Level 3 NCEA
Recommended:	Chemistry, Biology, English-rich subjects.
2017 entry:	In addition to standard University Entrance (see above) and an additional academic English requirement NCEA applicants will be assigned a rank order based on the best 80 credits at Level 3 or higher over a maximum of 5 approved subjects, weighted by the level of achievement attained in each set of credits. A total of 260 plus a minimum of 17 external credits in Level 3 Calculus and 16 external credits in Level 3 Physics will guarantee entry.

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Bachelor of Engineering (Software Engineering) (Honours) (4 years)

Pre-requisites: Students <u>must</u> take Calculus and Physics for Level 3 NCEA.

2017 entry: Standard University Entrance (see above) plus a rank score of 250 and 14 NCEA Level 3 credits in Calculus and Physics will guarantee entry. All other applicants who have UE including L3 Calculus and Physics will be considered on a case-by-case basis. An interview may be required.

Bachelor of Business (Business Information Systems) (3 years)

Recommended: All approved Level 3 NCEA language rich subjects, Accounting, Economics, Business and Mathematics subjects are useful.

2017 entry: Standard University Entrance (see above).

Bachelor of Computer and Information Sciences (3 years)

Majors available in: Analytics, Computer Science, IT Service Science, Networks and Security, Software Development, Computational Intelligence

Recommended: Level 3 Calculus, Statistics, Mathematics, Digital Technologies

2017 Entry: Standard University Entrance (see above). A ranked score of 120 and one Mathematics subject will guarantee entry but if this standard is not reached applicants will be considered on a case-by-case basis and an interview may be required

Bachelor of Engineering Technology (3 years)

Majors available in: Computer and Mobile Systems, Network and Communication

Recommended: Preferred school subjects are English, Digital Technologies and Technology.

Prerequisites: Level 2 Physics and any Level 3 subject from Mathematics, Statistics or Calculus.

2017 Entry: Standard University Entrance (see above) plus a minimum of any Level 3 Mathematics subject plus Physics at Level 2 or above. An interview may be required.

NB: The 1 year Certificate in Science and Technology is designed as a foundation for the Computer and Engineering degrees but does not guarantee entry.

University of Otago
Bachelor of Commerce (Information Science) (3 years)
(may also be taken as part of a BA or BSc)

Recommended: Mathematics with Statistics is recommended and an Language-rich subject and Calculus are useful.

2017 entry: Preferential (see prospectus) or standard University Entrance (see above).

Bachelor of Science in Computer Science (3 years)
(may also be taken as a BA)

Recommended: Mathematics with Calculus is recommended and an English-rich subject and Mathematics with Statistics are useful.

2017 entry: Preferential (see prospectus) or standard University Entrance (see above).

N.B. Otago also offers degrees in Computational Modelling and Software Engineering both as a BAppSc degree

N.B. The above is only a small example of tertiary institutions that offer courses in this field. Many others are available and individual students should check these e.g. Techtorium offers a 1 year Diploma in PC support.