

BACKGROUND INFORMATION FOR CAREERS

- These represent only a selection of possible careers and the requirements listed here are minimum ones.
- Tertiary Institutions will offer slightly different courses and entry requirements may differ.
- For further information see the careers staff and/or use the range of resources in the Careers Department.

CAREER	BACKGROUND REQUIRED
Accountancy - Degree	Entry to university. A background in Mathematics with Statistics is advantageous.
Adventure Recreation & Outdoor Education – Degree	42 credits at Level 3 across three subjects, including a minimum of 14 Level 3 credits in a subject which demonstrates oral and written communication ability. Applicants need to have a log of experience for each outdoor pursuit within the last five years.
- Certificate	36 credits in NCEA Level 2 over four subjects. Participation in at least 10 sessions of recreational activities within the last year (minimum 20 days).
Agricultural Science	Entry to university. Mathematics, Biology and Chemistry are required.
Agriculture - Degree	Entry to university.
Animal Care - Certificate	12 Credits in NCEA Level 1 English or History or Science or Biology.
Architecture – Degree (Victoria)	Entry to university. Mathematics (preferably calculus), English, Art, Technology, Graphics or Physics recommended. If you do not have the required level of achievement of 14 NCEA Level 3 credits in Mathematics and/or Physics, you will need to include a Mathematics or Physics course in your first year programme.
Architecture - Landscape Degree	Entry to university. English, Geography, Biology, History, Design and Horticulture are relevant school subjects.
Architectural Studies - Degree	NCEA Level 3 – 14 credits in a design or art based subject, 14 credits in an English language subject and an additional 14 credits from another subject.
Architectural Technology – National Diploma	12 credits in NCEA Level 2 in each of three subjects.
Armed Services	A wide range of careers is available with differing entry requirements.
Art - Fine Arts - Degree	Entry to university. NCEA Level 3 in two Practical Art subjects and at least 14 credits in each of two other NCEA Level 3 subjects.
Baking – National Certificate	12 NCEA Level 1 credits in English and 12 credits in Mathematics.
Biomedical Sciences – Degree	Entry to university. NCEA Level 3 Biology, Chemistry, Mathematics and Physics recommended.
Broadcasting Communications – Degree (Digital Film and Television Production, Radio or Broadcast Journalism)	Entry to university. 14 credits in each of two “approved” NCEA Level 3 subjects, one of which must be an “English-rich” subject, an additional 14 credits at Level 3. Also 14 credits in Level 1 Mathematics.
Business Administration – Degree	Entry to university.
Business (New Zealand Diploma)	50 credits NCEA Level 2 or above with at least 12 credits in each of three subjects including 8 Literacy credits at NCEA Level 2. At least 14 credits in NCEA Level 1 Mathematics (or higher).
Careers with Children	60 credits in NCEA Level 2.
Carpentry – Certificate	A minimum four credits Literacy and four credits Numeracy NCEA Level 1.
Computer Technician – Certificate	A minimum of 60 credits at NCEA Level 1 across five subjects, including 12 credits for NCEA Level 1 English. Basic word processing skills.
Computer Science – Degree	Entry to university. Mathematics is useful.

Cookery for the Hospitality Industry - CPIT Certificate	8 credits in Level 1 English.
Dental Technology – Degree	Entry to university. Students should have a background in Chemistry at Year 13 and Biology at Year 12. Mathematics and Physics would be an advantage.
Dentistry – Degree	Entry to University. NCEA Level 3 Biology, Chemistry, English, Mathematics and Physics are recommended. Competitive entry to second year.
Design – Degree (CPIT) (Applied Visual Art, Visual Communication, Design or Multimedia Design)	14 credits in NCEA Level 3 in each of three subjects. 8 credits in NCEA Literacy Level 2, 14 credits in Level 1 Mathematics or higher, Portfolio.
Digital Video Post Production - Diploma	A portfolio demonstrating existing skills or potential in either film making, computer graphics, multimedia, graphic design, animation, audio-engineering, photography, visual arts. At least 28 credits in NCEA Level 3 in no more than two subjects and at least 60 credits in NCEA Level 2 including 12 credits in English.
Economics – Degree	Entry to university. Mathematics with Calculus and Mathematics with Statistics to NCEA Level 3 strongly advised for students who want to major in Economics.
Education – Degree	Entry to university.
Electrical Engineering (Pre-Trade) - Certificate	8 NCEA Level 1 Literacy credits and 12 Level 1 credits in Mathematics.
Electricity Supply (Pre-trade)- Certificate	8 NCEA Level 1 Literacy credits and 12 Level 1 credits in Mathematics.
Engineering – Degree	Entry to university. It is recommended that students intending to study Engineering at the University of Canterbury should aim to achieve 18 credits in each of Chemistry, Mathematics with Calculus and Physics at NCEA Level 3.
- Diploma (Civil or Mechanical)	12 NCEA credits at Level 2 in Mathematics or Physics, 12 credits in NCEA Level 1 English.
Engineering Technology (Electrotechnology) - Degree	42 credits at NCEA Level 3. 14 credits in each of two subjects. Mathematics, Technology, Electronic and/or Physics preferred. 14 credits in an additional subject. 12 credits in NCEA Level 2 Mathematics and 12 credits in NCEA Level 2 Physics or Electronics. 8 credits in Level 2 English (4 Reading and 4 Writing).
Fashion Technology & Design -Certificate - Diploma	12 credits in NCEA Level 2 in a subject that shows written English skills and 12 credits in NCEA Level 1 Mathematics. A portfolio is required. Successful completion of the Certificate in Fashion Technology and Design – Level 4.
Food Science – Degree	Entry to university. English, Biology, Chemistry and Mathematics are highly recommended.
Forestry – Degree	Entry to university. Students should have a background in Statistics, Biology, Chemistry and English.
Hairdressing – Certificate	12 credits NCEA Level 1 in Literacy and 12 credits in Numeracy.
Horticulture – National Certificate	12 credits in NCEA Level 2 in two of the following subjects: Biology, Horticulture, Science, Mathematics and English.
Hospitality Management – Degree - National Diploma	Entry to university. 55 credits NCEA Level 2 over four subjects including 12 credits of English.

Hotel Front Office Operations - Certificate	8 credits NCEA Level 1 English or English rich subject.
Human Nutrition – Degree	Entry to University. NCEA Level 3 Biology, Chemistry, Mathematics and English preferred.
Information & Communication Technologies – Degree	14 Credits in each of three NCEA Level 3 subjects. One of these subjects must be “English language-rich” and another “Mathematics-rich”.
Information Technology – Certificate	48 credits NCEA Level 2 over four subjects, including 12 credits in English Level 2 (four credits in Reading and four in Writing) or 12 credits in Level 2 History or Geography or Economics.
Information & Communications Technology - Diploma	55 credits NCEA Level 2 over four subjects, including 12 credits in Mathematics (or Physics or Chemistry), and 12 credits in English (must include four credits in Reading and four credits in Writing) or 12 credits in Level 2 History, Geography or Economics.
Interior Décor - Certificate	12 credits in each of NCEA Level 1 English and Mathematics. Computing skills. Ability to recognise and differentiate colours.
Interior Design (Residential) - Diploma	12 NCEA Level 2 credits in each of three subjects, one of which is English intensive. Numeracy skills required.
Language – Degree (CPIT) Japanese	Total of 42 credits at Level 3: 14 credits in each of two subjects, one of which must be Japanese. An additional 14 credits.
Languages – Degree	Entry to university.
Law – Degree	Entry to university. Highly competitive in second year.
Management Science – Degree	Entry to university. NCEA Level 3 Mathematics (Calculus and Statistics), concurrent study in Economics, Accounting and Computing highly desirable.
Māori – (CPIT) <u>Te Ata Hou</u> – Certificate in Foundation Studies <u>Te Haeata</u> – Certificate in Māori Foundation Studies <u>Te Hāpara</u> – Diploma in Māori Studies <u>Māori Language</u> - Degree	Basic English reading and writing skills. Basic English reading and writing skills. 36 credits in NCEA Level 2 over three subjects. 12 credits in NCEA in Level 1 Te Reo Māori. 42 NCEA credits at Level 3 – 14 in each of three subjects.
Medical Imaging – Degree	42 credits in NCEA in Level 3 in three subjects. 14 credits in an English language rich subject, 14 credits in a Science subject or Mathematics. Physics preferred. An additional 14 credits.
Medical Laboratory Science – Degree	Entry to University. NCEA Level 3 Biology, Chemistry, English, Mathematics and Physics recommended. Competitive entry to second year.
Medical Radiation Therapy – Degree	Priority selection to students with NCEA Level 3 English, either NCEA Level 3 Statistics or Calculus, and either NCEA Level 3 Physics or Biology. Selection too by sponsoring District Health Board. School leavers are initially selected on their Year 12 NCEA performance and the subjects taken for Year 13.
Medicine – Degree	Entry to University. NCEA Level 3 Biology, Chemistry, Mathematics, Physics and English recommended. Very competitive entry to second year.
Motor Industry - Certificate	12 NCEA Level 1 Literacy Credits and 8 NCEA Level 1 credits in Mathematics.
Music – Degree	Entry to university. Music at Years 12 and 13 preferred.

Nursing – Degree - Certificate	42 credits at Level 3. 14 credits in an “English language rich” subject; 14 credits in Biology, Physical Education or Chemistry, 14 credits in another Level 3 subject, 14 credits in Level 1 Mathematics. 12 credits in NCEA Level 1 English and 12 credits in NCEA Level 1 Mathematics.
Occupational Therapy – Degree	Entry to University.
Optometry – Degree	Entry to university. Biology, Chemistry and Physics recommended. Entry to second year competitive.
Oral Health – Degree (dental hygiene, dental therapy)	Entry to University.
Performing Arts Circus Arts - Diploma Musical Arts - Degree Performing Arts (Musical Theatre) - Degree	24 NCEA credits including 12 credits in a subject which has a high English language component. Performance experience in one or more performance media. 42 NCEA credits at Level 3. Entry to the degree programme is dependent on a successful audition. 42 NCEA Level 3 credits, including NCEA Level 2 Literacy and 14 credits in NCEA Level 1 Mathematics.
Pharmacy – Degree	Entry to University. NCEA Level 3 Chemistry, Biology, Mathematics (Calculus or Statistics), Physics, English recommended. Competitive entry to second year.
Photographic Imaging – Diploma	12 credits in NCEA Level 2 English, or other English language subject. A basic level of photographic ability – folio required.
Physical Education – Degree (Otago)	A Year 13 course of study. Entry to university. At least 80 credits at NCEA Level 2 or higher, with a minimum of 16 credits in each of four approved subjects. Biology may be helpful and Physical Education is highly recommended. The total number of credits achieved at Merit and Excellence will be taken into account.
Physiotherapy – Degree	Entry to University. NCEA Level 3 Biology, Chemistry, English, Mathematics and Physics recommended. Very competitive entry to second year.
Plaster Board Fixing & Finishing - Certificate	NCEA Level 1 Literacy and Numeracy required.
Pre-Trade Painting & Decorating - Certificate	Numeracy and Literacy skills required. Preference is given to those with a letter of intent from the industry.
Pre-Trade Plumbing, Gasfitting & Drainlaying - Certificate	NCEA Level 1 Literacy and Numeracy required.
Psychology	Entry to University.
Recreation Management – Degree	Entry to University. Biology, English, Geography, Economics, Mathematics, History, or Physical Education useful.
Science – Degree - Diploma (Level 5)	Entry to university. Mathematics and Sciences desirable. 36 credits in NCEA Level 2 with at least 12 credits in each of three of the following: Mathematics, Biology, Chemistry, Physics and 8 credits in an English rich subject.
Social Work – Degree - Degree CPIT	Entry to university. 42 NCEA credits at Level 3: 14 credits in each of two subjects which are English language rich. An additional 14 credits required.
Speech & Language Therapy – Degree	Entry to university. A Science background to NCEA Level 2 is recommended. Very competitive to second year.

Sport Coaching – Degree	Entry to University
Surveying – Degree	NCEA Level 3 English, Geography, Mathematics (Calculus and/or Statistics) and Physics recommended. Admission to second year is competitive.
Surveying Quantity – Diploma	12 credits in NCEA Level 2 in each of three subjects.
Teaching – Early Childhood, Primary	Entry to university. Five years secondary schooling preferred.
Teaching – Physical Education	Entry to university. NCEA Level 3 Physical Education, Biology and English recommended.
Teaching – Secondary	University degree.
Tourism – Degree	Entry to university.
- Certificate	NCEA Level 2.
Veterinary – Degree	Entry to university. NCEA Level 3 Chemistry, Mathematics, preferably Statistics, Physics and Biology the ideal background. Good English skills. Very competitive. Before selection into the second semester applicants must produce a letter on the clinic letterhead signed by a vet that they have had at least 10 days of veterinary work experience in the preceding two years.
Veterinary Nursing – National Certificate	36 credits in NCEA including: 12 Credits in NCEA Level 2 Biology or Physical Education, 12 credits in Level 1 Mathematics and 12 credits in NCEA Level 2 English or English language rich subject.