University of Canterbury



Christchurch, New Zealand



The University of Canterbury

- 1. Introduce the University
- The Structure of the Engineering Degree
- 3. Talk about the Various Degrees Offered within the College of Engineering
- 4. Some Points of Demarcation of Engineering at UC
- 5. Additional Factors Associated with UC



Christchurch, New Zealand

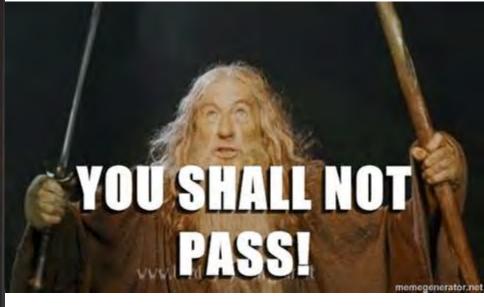




Population:

- New Zealand 4 500 000
- Christchurch 366 000
- Known as the 'Garden City'
- Near the beach and five ski fields
- Lonely Planet has named
 Christchurch in sixth place in its
 Best in Travel 2013: Top 10 Cities.

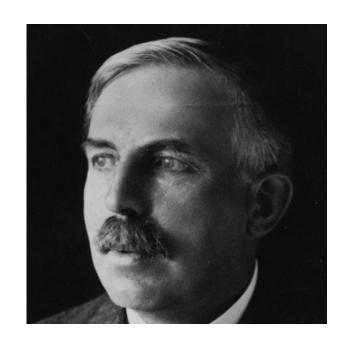




University of Canterbury



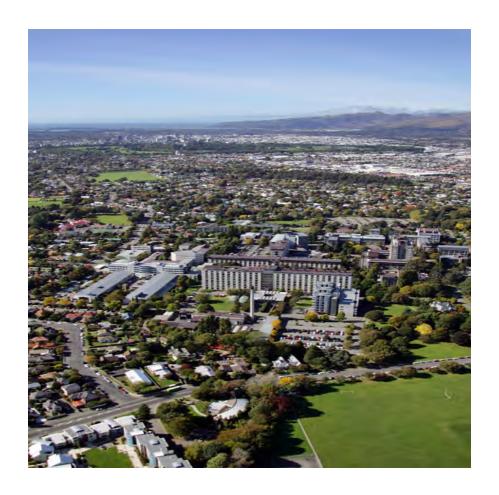
- Established in 1873, Canterbury
 College, as the University was
 originally known, was only the second
 university in New Zealand
- Ernest Rutherford, Canterbury's most distinguished graduated, studied at the University in the 1890s
- 2000 courses
- 14,700 students
- 726 academic staff



University of Canterbury



- We are a residential campus!!
- 1800 international students
- Students from over 93 countries

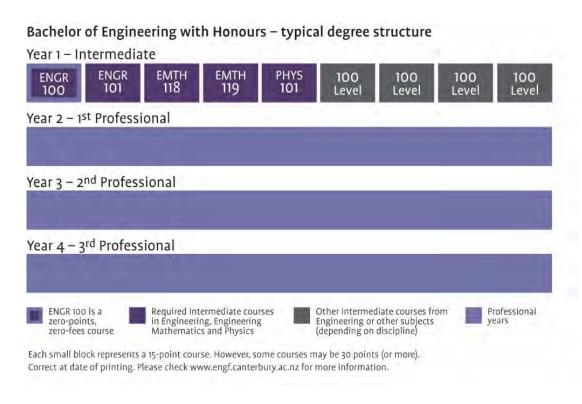


Structure of the UC Engineering Degree



Bachelor of Engineering with Honours - BE(Hons)





Four-year honours degree

Engineering Intermediate Year

- 5 common required courses
- 4 other approved courses
 (depends on intended discipline)
- Unique opportunity to keep options open in first year
- First year is a dual pathway to Engineering or Physical Sciences
- Years 2-4 called the Engineering Professional Years (1st, 2nd and 3rd pro)

Other Requirements: Practical Work



- UC Engineering students complete 800 hours (100 days) in industry as part of their degree
- Can work in NZ or overseas
- Workshop course or site-safe course
- 1st Aid Certificate
- Final year projects in the final year of all of our Engineering degrees
- Many sponsored by industry, with an academic and industry mentor





UC Engineering Degrees





UC Engineering



- New Zealand's Premier College of Engineering est. 1887
- Civil Engineering ranked top 1% in the world (QS World Rankings 2016)
- Chemical & Process Engineering, Mechanical Engineering all ranked top in NZ for research
- Electrical Engineering: Internationally recognised for power engineering and nanotechnology
- Computer Engineering: 50 % of NZ's ICT industry is located in Christchurch
- Over 3000 students in the College



International engineering qualification



- All of our undergraduate degrees are accredited by IPENZ, the Institution of Professional Engineers New Zealand.
- IPENZ is a signatory of the Washington Accord.





UC Engineering



The College of Engineering is made up of 5 departments and 2 schools

- Chemical and Process Engineering
- Civil and Natural Resources Engineering
- Computer Science and Software Engineering
- Electrical and Computer Engineering
- Mechanical Engineering
- School of Forestry
- School of Mathematics and Statistics



Bachelor of Engineering with Honours - BE(Hons)



UC Engineering offers nine engineering disciplines



















- Civil
- Natural Resources
- Chemical and Process
 - Minor in Bioprocess Engineering
- Forest
- Mechanical
- Mechatronics
- Electrical and Electronic
- Computer
 - Minor in Networking and Communications
- Software

UC Engineering: Some Points of Demarcation



Canterbury Engineering The Future





UC is spending \$142 million on new and modernised engineering buildings by 2017

Canterbury Engineering The Future



- The project leads to state of the art labs and learning spaces
- Facilities are comparable to top engineering schools around the world







Top facilities for teaching and learning







Canterbury Engineering The Future



- Rebuilding a city, 20 year city plan -\$60 billion dollar project
- We are supplying engineers in all fields (civil, electrical, mechanical, etc) to help with the rebuild.
- Field site on our doorstep = hands on learning and practical work opportunities





UC Engineering Labs -Top Facilities





- Augmented Reality Lab
- Wind Tunnel

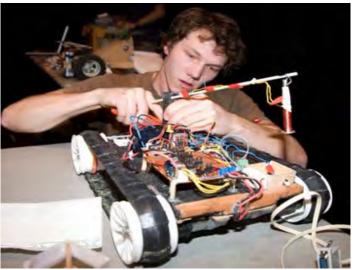


UC Engineering Labs -Top Facilities









UC Engineering Labs - Top Facilities









Additional Factors



Other things to study at Canterbury

- Service Learning <u>CHCH101 Rebuilding</u> Christchurch
 - 15 Canterbury credit
 - Projects on recovery and rebuilding of Christchurch after the earthquakes
 - Community engagement
- Biculturalism Maori





On-campus Accommodation



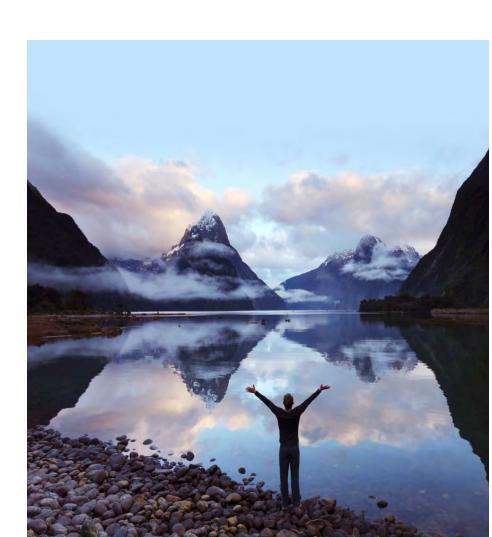
- Study Abroad and Exchange accommodation package at UC Accommodation Student Village Availability at UC Accommodation Student Village is guaranteed for Exchange students (students must apply for accommodation online by the deadline and return all subsequent contracts by the required deadlines).
- Accommodation deadlines are: Semester 1 (February start) – 1 December Semester 2 (July start) – 1 May



Support & services



- Dedicated student support teams
- Mentoring programme
- International Welcome
- More than 130 clubs and societies to join, including tramping (hiking), snow sports, climbing, biking, etc.
- UC Rec Centre
- Free airport pick-up for exchange students



Getting around



- Buses run to campus every few minutes from practically anywhere in the city
- Bicycle is the best because it is ...
 - A safe and easy way to get around
 - Environmentally friendly
 - Cheap and convenient
 - Christchurch is a temperate climate
 - Flat terrain
 - Many designated cycle paths and more coming all the time
 - On campus facilities

UC Engineering Questions?

