

# Bachelor of Engineering (BE (Hons)) Bachelor of Science (BSc)

Start online, finish on campus



## THE WORLD'S BEST CHOICE

### Key facts about the programme

- 1 Start in February 2021
- 2 Open to international students
- 3 Transfer to a degree in Engineering or Science
- 4 Study full-time or part-time



The University of Canterbury would like to make it easier for you to start your undergraduate study with us. Start either the Bachelor of Engineering (BE (Hons)) or the Bachelor of Science (BSc) degree online in your home country and transfer to complete your qualification on campus in Christchurch, New Zealand when borders reopen.

### What does this programme cover?

The BE (Hons) first year comprises eight 15-point courses plus a free academic writing and pastoral care course (ENGR100). This is made up of six compulsory courses and three first-year courses (visit [www.canterbury.ac.nz/engineering/qualifications-and-courses/engineering/first-year](http://www.canterbury.ac.nz/engineering/qualifications-and-courses/engineering/first-year) for more information). The BSc first year comprises eight 15-point courses with a choice of major in Chemistry, Computer Science, Mathematics, Psychology or Physics. Visit [www.canterbury.ac.nz/international/online-to-on-campus/](http://www.canterbury.ac.nz/international/online-to-on-campus/) for major course requirements.

The table at right shows 100-level Engineering and Science online courses.

The Certificate of Science (CertSc) involves taking four approved 15-point courses in science or Engineering first year (see the table). Students can use this as an exit qualification or transfer into the BSc or BE(Hons) degrees.

#### Bachelor of Engineering with Honours – Year 1\*

ENGR 100	ENGR 101	EMTH 118	EMTH 119	COSC 131	PHYS 101	100 Level	100 Level	100 Level
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zero-points, zero-fees courses
  compulsory courses
  courses to be advised for each student with the College of Engineering\*

#### Bachelor of Science – Year 1

SCIE 101	100 Level	100 Level	100 Level	100 Level	100 Level	100 Level	100 Level
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compulsory courses
  Science major courses
  other Science courses
  courses from Science or other degrees

#### Engineering and Science online 15-point courses

Semester One	Semester Two
CHEM111 Chemical Principles and Processes	CHEM112 Structure and Reactivity in Chemistry and Biochemistry
COSC101 Working in a Digital World	COSC131 Introduction to Programming for Engineers
COSC121 Introduction to Computer Engineering	DATA101 Introduction to Data Science
COSC131 Introduction to Programming for Engineers	EMTH 119 Engineering Mathematics 1B
EMTH118 Engineering Mathematics 1A	ENVR101 Introduction to Environmental Science
ENGR101 Foundations of Engineering	GISCI01 Introduction to Spatial Data Science
MATH102 Mathematics 1A	MATH103 Mathematics 1B
PHYS101 Engineering Physics A	MATH120 Discrete Mathematics
PHYS111 Introductory Physics for Physical Sciences and Engineering	PHYS102 Engineering Physics B: Modern Physics and Electromagnetism
PSYC105 Introductory Psychology – Brain, Behaviours and Cognition	PSYC106 Introductory Psychology – Social, Personality and Developmental
STAT101 Statistics	SCIE101 Science, Society and Me
	STAT101 Statistics

### AT A GLANCE

#### Start date

February

#### Months to complete

12 months.....full-time

#### Tuition fees

BE(Hons).....NZ\$40,813 (First year)  
BSc.....NZ\$36,563 (first 120 points)

#### Pathways

Bachelor of Engineering with Honours  
Bachelor of Science

Additional courses may be available in a given year.

\*For those studying engineering, a customised individualised study plan will be developed by our course advisory team based on their preparation and disciplines of interest.



### Student profile

Rosemary joined a 5-day experience on campus and learned astrophysics and got to use modern astronomical equipment at the Mount John Observatory in Tekapo. 'After this, I was thoroughly fascinated by how space worked and decided to explore it further as a part of my Physics study at UC,' she says. Having a long-developed love for the sciences, Rosemary's undergraduate study was made up of a variety of maths and physics areas.

#### Rosemary

Studying toward a Bachelor of Science in Astronomy



### Student profile

As an up-and-coming engineer in the aerospace field, Matthew has already made his mark through rocketry projects and competitions at UC. Matthew has been building devices since high school, one of his favourites being a snow gun using compressed air and pressurised water. A degree in Mechanical Engineering was 'a natural fit' to further develop his knowledge and gain more engineering project opportunities.

#### Matthew

Studying towards a Bachelor of Engineering with Honours

### What are the entry requirements?

- A relevant high school diploma (International Baccalaureate, GCE, Cambridge International Examinations)
- (CIE) A/AS) with a UC equivalent B+ average, GAOKAO
- Dean of Science / Engineering approval.

English	Overall	Lowest Band
IELTS	6.0	5.5
TOEFL	80	19 writing
Pearson	50	42 communicative skills

### Who to contact

Email [iro@canterbury.ac.nz](mailto:iro@canterbury.ac.nz)  
[www.canterbury.ac.nz/international/online-to-on-campus/enquiry-form/](http://www.canterbury.ac.nz/international/online-to-on-campus/enquiry-form/)

### Globally connected

We have partnerships with over 60 different institutions in Asia, Europe, North America, and Australia. You will also find over 100 different nationalities and ethnicities on campus, making it a welcoming and diverse home for us all.

- Academic World Ranking of Universities (2020) places UC ninth in the world for Civil Engineering.
- Membership: UC is the only Aotearoa New Zealand university to be a member of the AC21 Academic Consortium — 15 of the world's leading research universities.
- UC is the only Aotearoa New Zealand university to be a member of the global engineering exchange programme Global E3.

### World-class

UC has a strong reputation for high-quality degrees, research-active teaching staff, and world-class facilities.

UC's academic staff are well known in their fields and often write the textbooks you will study.

UC is ranked in the top three in New Zealand for the research intensity of its academic staff.\*\*\*

### Post-study employability

According to the Graduate Destination Survey, 2019:

- 65% of international graduates had full-time employment
- Domestic, New Zealand permanent residents, and international students reported nearly equal proportions of full-time employment.

## AT A GLANCE

### Why New Zealand?\*

- Within Top 7 in the world for Overall Prosperity, Natural Environment, and Social Capital
- Within Top 13 in the world for Education, Personal Freedom, and Safety & Security

### Why Christchurch?

- Largest city in the South Island
- Lowest unemployment rate in Australasia
- Strong economy
- An outdoor recreation paradise

### Why the University of Canterbury?

- QS Ranked 270\*\*
- Residential campus
- 3000+ employer connections
- Over 40 recognised research centres, institutes, and hubs

\*[www.prosperity.com/globe#NZL](http://www.prosperity.com/globe#NZL)

\*\*QS World University Rankings 2020

\*\*\*2018 Performance-based Research Fund

This information was correct at October 2020.