[illegible]

These regulations must be read in conjunction with the General Regulations for the University.

1. [illegible]

These Regulations came into force on 1 January 2024.

2. [illegible]

In exceptional circumstances the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate may approve a personal programme of study which does not conform to these Regulations.

3. [illegible]

To qualify for the BE(Hons) a student must complete:

(a) a programme of study for First Year of not less than 120 points;
(b) an approved academic writing test;
(c) a Second, Third and Fourth Year programme where each year is not less than 120 points;
(d) a programme of study which must include not less than 120 points at 400-level or higher;
(e) ENGR200 Engineering Work Experience.

4. [illegible]

(a) Admission to the BE(Hons) is by approval of the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate.
(b) In addition, and principally on the basis of grades obtained, a student may qualify for admission to the Second Year programmes upon:
  i. successful completion of the First Year Programme; or
  ii. successful completion of an approved First Year Programme at another university; or
  iii. completion of appropriate NCEA Level 3 subjects, or the New Zealand University Entrance, Scholarships qualification in appropriate subjects, or in other examinations approved by the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate; or
  iv. completion of a qualification from a tertiary institution.
(c) Notwithstanding Regulation 3 above, unless exempted from the First Year, a student will not be admitted to the Second Year without passing the whole First Year requirements in two years or less.
(d) The entire BE(Hons) First Year is a prerequisite for the Second Year.
(e) The Amo Matua, Pūhanga | Executive Dean of Engineering or delegate reserves the right to decline entry to a student who has been offered a place in the Second Year of the BE(Hons) degree and who has not completed their enrolment by the Friday preceding the first day of lectures of Semester 1.
(f) Special admission on the basis of Regulation 4(b)(iii) must be made by written application to the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate. An interview may also be required.
(g) Special admission on the basis of Regulation 4(b)(iv) must be made by written application to the Amo Matua, Pūhanga | Executive Dean of Engineering or delegate. The Amo | Dean, in consultation with the relevant department Year Coordinator or Director of Studies, will consider the student's prior learning. In particular, their preparation in mathematics, physics, chemistry or computer science, and any relevant work experience in industry.

5. [illegible]

(a) This qualification may be awarded in the following disciplines: Chemical and Process Engineering, Civil Engineering, Computer Engineering, Electrical and Electronic Engineering, Forest Engineering, Mechanical Engineering, Mechatronics Engineering, Natural Resources Engineering, and Software Engineering.
(b) The degree may also be completed with a Minor that denotes sub-specialisation within an engineering discipline.
(c) Any given course may contribute to only one major or minor.

Qualification Regulations

(6) ENCN221 Engineering Materials
(7) ENCN231 Solid Mechanics
(8) ENCN242 Fluid Mechanics and Hydrology
(9) ENCN253 Soil Mechanics
(10) ENCN281 Environmental Engineering

Note: Students are required to attend the Second Year Camp. Work at the camp will form part of the

23.I

(1) Three of the following courses:
- (a) ENCN405 Ecologically Engineered Systems
- (b) ENCN441 Fluid Mechanics of Environmental Systems
- (c) ENCN442 Integrated Surface Water and Groundwater Engineering
- (d) ENCN446 Fluid Mechanics of Built Systems
- (e) ENCN482 Site Assessment and Remediation
- (f) ENGR409 Design of Drinking Water and Wastewater Treatment Systems
- (g) An appropriate course approved by the Director of Studies

(2) ENCN493 Project**

**Nnourses:

Qualification Regulations

(a) COSC411 Advanced Topics in HCI
(b) COSC422 Advanced Computer Graphics
(c) SENG406 Software Security
(d) COSC428 Computer Vision
(e) COSC441 Wireless Networking Systems and Performance
(f) ENEL420 Advanced Signals
(g) ENEL422 Communications Engineering
(h) ENEL491 Nano Engineered Electronics Devices
(i) ENME403 Linear Systems Control and System Identification
(j) ENMT482 Robotics
(k) Any 15 point 400-level option to be approved by the Director of Studies

2 .l [illegible]

(1) COSC264 Introduction to Computer Networks and the Internet
(2) COSC364 Internet Technology and Engineering
(3) COSC441 Wireless Networking Systems and Performance
(4) ENEL320 Signals and Communications
(5) ENEL400 Electrical and Computer Engineering Research Project
(6) ENEL422 Communications Engineering

[illegible]

Note: Not all courses o ered in a given year.

2 . [illegible]

(1) ENEL198 Electrical Workshop Course
(2) ENEL199 Basic Workshop Course
(3) EMTH210 Engineering Mathematics 2
(4) EMTH211 Engineering Linear Algebra and Statistics
(5) ENEL200 Electrical and Computer Engineering Design
(6) ENEL220 Circuits and Signals
(7) ENEL270 Principles of Electronics and Devices
(8) ENEL280 Principles of Electrical Systems
(9) ENEL290 Waves and Materials in Electrical Engineering
(10) ENCE260 Computer Systems

2 . [illegible]

(1) ENCE361 Embedded Systems 1
(2) ENEL300 Electrical and Computer Engineering Design 2
(3) ENEL301 Fundamentals of Engineering Economics and Management
(4) ENEL320 Signals and Communications
(5) ENEL321 Control Systems
(6) ENEL372 Power and Analogue Electronics
(7) ENEL373 Digital Electronics and Devices
(8) ENEL382 Electric Power and Machines

30 [illegible]

(1) ENEL400 Electrical and Computer Research Project
(2) Su cient courses selected from:
(a)

Qualification Regulations

Note: Not all courses offered in a given year.

35.

(1) ENME199 Workshop(T) en-GB(18 g (en-GB)/MCID 729 BDC BT0 c. ( )Tj en-1P c) 35.

Qualification Regulations

42.

(1) ENMT401 Mechatronics Honours Research and Development Project
(2) ENCE461 Embedded Systems 2
(3) ENME403 Linear Systems Control and System Identification
(4) Sufficient courses selected from:
  (a) ENMT482 Robotics
  (b) COSC401 Machine Learning
  (c) COSC428 Computer Vision
  (d) ENEL422 Communications Engineering
  (e) ENCE464 Embedded Software and Advanced Computing
  (f) ENEL471 Power Electronics 2
  (g) ENEL491 Nano Engineered Devices
  (h) ENME402 Acoustics and Vibrations
  (i) ENME404 Aerodynamics and Ground Vehicle Dynamics
  (j) ENME406 Engineering Product Design and Analysis
  (k) ENME423 Instrumentation and Sensors
  (l) ENME451 Biomechanics
  (m) Any 15 point 400-level option to be approved by the Director of Studies

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Note: Not all courses offered in a given year.

43.

(1) ENCI199 Health & Safety on the Worksite
(2) ENCN201 Communication Skills Portfolio 1
(3) EMTH210 Engineering Mathematics 2
(4) ENCN205 Applied Data Analysis for Civil and Natural Systems
(5) ENCN213 Design Studio 1
(6) ENCN221 Engineering Materials
(7) ENCN231 Solid Mechanics
(8) ENCN242 Fluid Mechanics and Hydrology
(9) ENCN253 Soil Mechanics
(10) ENCN281 Environmental Engineering

Note: Students are required to attend the Second Year Camp. Work at the camp will form part of the assessment for ENCN281 Environmental Engineering and ENCN201 Communication Skills Portfolio 1.

44.

(1) ENCN301 Communication Skills Portfolio 2
(2) ENCI335 Structural Analysis and Systems 1
(3) ENCN304 Deterministic Mathematical Methods
(4) ENCN342 Hydraulics and Applied Hydrology
(5) ENCN347 Stormwater Systems Engineering
(6) ENCN353 Geotechnical Engineering
(7) ENCN361 Transportation Engineering
(8) ENCN371 Project and Infrastructure Management
(9) ENCN375 Systems Engineering for a Changing Climate

45.

(1) ENCN493 Project
(2) ENNR413 Integrated Natural Resources Design
(3) Sufficient courses selected from:
  (a) ENCN401 Engineering in Developing Communities
  (b) ENCN405 Ecologically Engineered Systems
  (c) ENCN412 Traffic Engineering

Qualification Regulations

4 [illegible]

(1) SENG401 Software Engineering III
(2) SENG402 Software Engineering Research Project
(3) SENG406 Software Security
(4) Sufficient 400-level courses selected from COSC, SENG, ENCE, and DATA430–439 approved by the Director of Studies

Qualification Regulations