

Programme Regulations for:

Bachelor of Applied Science

with endorsements in: Biotechnology
Environmental Technology
Food Technology

Wintec code:	SC0901	MoE:	WK2560
Level:	7	Credits:	360
Owner:	Centre for Applied Science & Primary Industries	Effective Date:	July 2026

These regulations should be read in conjunction with the Institute's Academic Regulations.

1. Transition Arrangements

- 1.1. The Bachelor of Technology programme underwent a review process in 2025 and as a result was renamed as the Bachelor of Applied Science; the Bachelor of Applied Science programme will be offered by Wintec from July 2026.
- 1.2. The underpinning principle of these transition arrangements is that no student or candidate will be disadvantaged by these arrangements.
- 1.3. All candidates entering Year One of the programme from July 2026 will be enrolled in the Bachelor of Applied Science programme.
- 1.4. Students who entered Year One of the programme in January 2026 may continue their studies in the Bachelor of Technology or, on a case-by-case basis, may transition into the Bachelor of Applied Science programme in July 2026.
- 1.5. Students entering Year Two of the programme in July 2026 may continue their studies in the Bachelor of Technology or, on a case-by-case basis, may transition into the Bachelor of Applied Science.
- 1.6. Students who entered Year Two of the programme in January 2026 may continue their studies in the Bachelor of Technology or, on a case-by-case basis, may transition into the Bachelor of Applied Science.
- 1.7. Students who entered Year Three of the programme in January 2026 or are entering Year Three of the programme in July 2026 will continue their studies in the Bachelor of Technology.
- 1.8. Part-time students, and those in exceptional circumstances, enrolled in the Bachelor of Technology programme in 2026 will be assessed on a case-by-case basis to determine individual transition arrangements.
- 1.9. Past students returning to complete their programme will be assessed on a case-by-case basis to determine individual transition arrangements.

2. Admission and Entry

2.1 General Academic Admission

- a. Candidates are required to have obtained:
 - i. NCEA Level 3 comprised of 60 credits at NCEA Level 3 or above and 20 credits at NCEA Level 2 or above, including:
 - (1) 14 credits each at NCEA Level 3 in Biology, Chemistry and a third [approved subject](#), preferably English; **and**
 - (2) a minimum of 20 credits at NCEA Level 2 in Mathematics; **and**
 - (3) [Literacy](#) (10 credits at NCEA Level 2 or above made up of 5 credits each in reading and writing); **and**
 - (4) [Numeracy](#) (10 credits at NCEA Level 1 or above); **or**

- ii. 80 credits at NCEA Level 2, including:
 - (1) a minimum of 20 credits each in Biology, Chemistry and Mathematics and one other approved subject, preferably English; **and**
 - (2) Literacy (10 credits at NCEA Level 2 or above made up of 5 credits each in reading and writing); **and**
 - (3) Numeracy (10 credits at NCEA Level 1 or above); **or**
- iii. a relevant qualification at Level 3 on the NZQF or above; **or**
- iv. equivalent.

2.2 Special Admission

Domestic applicants aged 20 years or above who have not met the General Admission or entry requirements for a programme but whose skills, education or work experience indicate that they have a reasonable chance of success¹ may be eligible for Special Admission. Special admission will be granted at the discretion of the relevant Group Director or designated nominee. Such applicants may be required to successfully complete a foundation, bridging or tertiary introductory programme as a condition of entry into higher level programmes.

2.3 Provisional Entry

Domestic applicants aged under 20 years who have not met the general academic admission and entry criteria for a programme but who can demonstrate a reasonable chance of success through other educational attainment and/or work or life experience may be eligible for provisional entry at the discretion of the relevant Group Director or designated nominee. Provisional entry places restrictions on re-enrolment to be lifted if the applicant's performance is deemed satisfactory by the relevant Group Director or designated nominee.

2.4 English Language Requirements

Candidates who have English as a second language are required to have an International English Language Test System (IELTS) score of 6.0, with no individual band score lower than 5.5; or equivalent.

3. Transfer of Credit

- 3.1 The standard credit limit for TOC is two thirds ($\frac{2}{3}$) of the qualification.
- 3.2 Transfer of credit will not be granted at Level 7.
- 3.3 In exceptional circumstances, these Transfer of Credit clauses may be waived, with the approval of Komiti Akoranga or delegated authority.

4. Programme Requirements

- 4.1 Every candidate for the Bachelor of Applied Science shall to the satisfaction of Komiti Akoranga follow a programme of study for a period of normally not less than three years full-time study.
- 4.2 Each candidate's programme of study shall comprise compulsory and elective modules as listed in Section 7 of these regulations, totalling 360 credits, of which at least 210 credits must be at Level 6 or above with at least 75 credits at level 7.
- 4.3 Candidates are required to complete the modules in Section 7 of these regulations as follows:
 - a. All candidates are required to complete the common compulsory modules in Group A.
 - b. In addition, **Biotechnology Endorsement** candidates are required to complete the compulsory modules in Group B and the remaining balance of elective modules from Group E.

¹ [Education and Training Act 2020 Section 255 \(2\)](#)

- c. In addition, **Environmental Technology Endorsement** candidates are required to complete the compulsory modules in Group C and the remaining balance of elective modules from Group E.
 - d. In addition, **Food Technology Endorsement** candidates are required to complete the compulsory modules in Group D and the remaining balance of elective modules from Group E.
 - e. Candidates may complete up to four elective modules from another programme relevant to their endorsement with approval from the Team Manager.
- 4.4 Candidates may complete a double endorsement with approval from the team manager. To complete a double endorsement, candidates are required to:
- a. Complete all common and endorsement compulsory modules and the remaining balance of elective modules as set out in clause 3.3.
 - b. Where a module is included in both endorsements, the candidate will not be required to repeat the module but must complete a total of 360 credits.
 - c. Complete the 45-credit module SCBT703 Technology Project using an investigation developed around objectives relating equally to both chosen endorsements.
 - d. A candidate that does not achieve the requirements for both endorsements outlined above may be awarded the degree with a single endorsement.

5. Completion of the Programme

- 5.1 Candidates may take up to ten years to complete this programme, unless an extension is granted by special permission of the Group Director.

6. Award of the Qualification

- 6.1 Candidates who successfully complete the requirements in Section 4 of these regulations will be awarded the Bachelor of Applied Science with the relevant endorsement.
- 6.2 Candidates who successfully complete all requirements for a double endorsement will receive the award of the Bachelor of Applied Science with the two relevant endorsements.
- 6.3 In cases of exceptional academic achievement², the Bachelor of Applied Science may be awarded with either 'Merit' or 'Distinction'.

7. Schedule of Modules

Note: no value in the pre/co-requisite columns means there are none for that module.

Group A: Common Compulsory Modules for All Endorsements

Level 5 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI5506	Microbiology in Industry	5	15		
NSCI5504	Chemistry for Applied Science	5	15		
NSCI5502	Quality Assurance in Applied Science	5	15		

Level 6 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI6107	Quality Statistics for Applied Science	6	15		

Level 7 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
SCBT701	Topics in Technology	7	15		

² Maintained a grade average of A- or higher
Bachelor of Applied Science
Version: 26.00
KA: TBD

SCBT703B	Technology Project	7	45	Three Level 6 Elective modules	
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Group B: Biotechnology Endorsement Compulsory Modules

Level 5 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI5509	Biology for Applied Science	5	15		
NSCI5510	Organic Chemistry for Applied Science	5	15		

Level 6 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI6109	Analytical Chemistry for Applied Science	6	15	NSCI5504	
NSCI6120	Biomolecules for Applied Science	6	15	NSCI5510	
NSCI6113	Molecular Methodologies for Applied Science	6	15	NSCI5509	

Level 7 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
SCBB704	Microbial and Gene Technology	7	15	NSCI6113	

Group C: Environmental Technology Endorsement Compulsory Modules

Level 5 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI5509	Biology for Applied Science	5	15		

Level 6 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI6119	Ecology for Applied Science	6	15	NSCI5509	
NSCI6106	Environmental Assessment for Applied Science	6	15		
NSCI6114	Conservation and Biosecurity for Applied Science	6	15		

Level 7 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
SCBE704	Environmental Management	7	15	NSCI6106	

Group D: Food Technology Endorsement Compulsory Modules

Level 5 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI5510	Organic Chemistry for Applied Science	5	15		
NSCI5513	Physics for Applied Science	5	15		

Level 6 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI6111	Food Chemistry for Applied Science	6	15	NSCI5510	
NSCI6121	Process Engineering	6	15	NSCI5513	
NSCI6112	Sensory Evaluation for Applied Science	6	15	NSCI6107	

Level 7 Modules

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
SCBF704	Food Process Technology	7	15	NSCI6121	

Group E: Elective Modules

Level 5

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI5509	Biology for Applied Science	5	15		
NSCI5510	Organic Chemistry for Applied Science	5	15		
NSCI5513	Physics for Applied Science	5	15		
NSCI5501	Professional Skills in Applied Science	5	15		
NSCI5503	Practical Laboratory Skills	5	15		
NSCI5514	Environmental Issues in Applied Science	5	15		
NSCI5515	Applied Food and Nutrition Science	5	15		

Level 6

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
NSCI6121	Process Engineering	6	15	NSCI5513	
NSCI6119	Ecology for Applied Science	6	15	NSCI5509	
NSCI6114	Conservation and Biosecurity for Applied Science	6	15		
NSCI6106	Environmental Assessment for Applied Science	6	15		
NSCI6109	Analytical Chemistry for Applied Science	6	15	NSCI5504	
NSCI6120	Biomolecules for Applied Science	6	15	NSCI5510	
NSCI6113	Molecular Methodologies	6	15	NSCI5509	
NSCI6111	Food Chemistry for Applied Science	6	15	NSCI5510	
NSCI6112	Sensory Evaluation for Applied Science	6	15	NSCI6107	
NSCI6125	Applied Microbiology for Applied Science	6	15	NSCI5506	
SCBT603	Technology Special Topic	6	15		
NSCI6101	Applied Science Workplace Legislation	6	15		
NSCI6102	Applied Science Work Placement 1	6	15		

Level 7

Module Code	Module Name	Level	Credits	Pre-Requisites	Co-Requisites
SCBB704	Microbial and Gene Technology	7	15	NSCI6113	
SCBC703	Advanced Analytical Chemistry	7	15	NSCI6109	
SCBE704	Environmental Management	7	15	NSCI6106	

SCBF704	Food Process Technology	7	15	NSCI6121	
Any additional Level 5, 6 or 7 modules relevant to the degree programme and endorsement and approved by the Team Manager or delegated authority.					