

# The Degree of Bachelor of Forestry Science (BForSc – 480 points)

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

## 1. Version

These Regulations came into force on 1 January 2018.

## 2. Variations

In exceptional circumstances the Amo Pūkaha | College of Engineering Dean (Academic) may approve a personal programme of study which does not conform to these Regulations.

## 3. The structure of the qualification

Subject to the provisions of the following Regulations, the degree shall consist of a First, Second, Third and Fourth Forestry Year as laid out in the Schedule to these Regulations. In addition,

- (a) A student must complete to the satisfaction of the Amo Pūkaha | College of Engineering Dean (Academic):
  - i. four Field Trips and present proof of completion of NZQA Unit Standard 17769 (Demonstrate Knowledge of General Health, Safety and Environmental Requirements in Forestry),
  - ii. a current First Aid Certificate, approved by the Amo Pūkaha | College of Engineering Dean (Academic), during their period of study, and
  - iii. practical work experience.
- (b) A student is required to obtain practical work experience in forestry, conservation or forest industry during the summer vacations. This will be credited to a student's non-academic requirements only if performed in accordance with the following requirements:
  - i. A student shall have completed 90 days work in employment approved by the Tumuaki, Te Kura Ngahere | Head of the School of Forestry no later than the end of examinations in the final year of study.
  - ii. Practical work will be credited to a student's course only after confirmation by the student's employer of the number of days worked.
  - iii. The Tumuaki, Te Kura Ngahere | Head of the School of Forestry may relax or modify the application of Regulations 3(b)(i) and 3(b)(ii) in individual cases.
- (c) A student who has achieved sufficiently high grades in the appropriate NCEA Level 3 subjects (or any other examination approved for the purpose by the Amo Pūkaha | College of Engineering Dean (Academic)) may substitute other courses for part of or be exempt from all or part of the First Forestry Year.
- (d) A student seeking restricted credit must apply to the Amo Pūkaha | College of Engineering Dean (Academic).
- (e) A student is required to have their programme of study approved by the Amo Pūkaha | College of Engineering Dean (Academic) prior to enrolment.

## 4. Admission to the qualification

A student must satisfy the Admission Regulations for the University to be admitted to this qualification with the following stipulations:

- (a) With the approval of the Amo Pūkaha | College of Engineering Dean (Academic), a student who has previously qualified at any Aotearoa New Zealand university for any bachelor's degree may be exempted from the whole or part of both the First and Second Forestry Examinations. If an exemption is granted, a special programme of preparatory study may be required.
- (b) A student who has qualified for the New Zealand Diploma in Forestry may, with the approval of the Amo Pūkaha | College of Engineering Dean (Academic), be exempted from parts of the first three Forestry Examinations.
- (c) A student who has qualified with outstanding merit for the New Zealand Certificate in Forestry and who has completed the practical requirements may, with the approval of the Amo Pūkaha | College of Engineering Dean (Academic), be exempted from the whole or part of the First and Second Forestry Examinations.

- (d) A student who has qualified with outstanding merit for the New Zealand Certificate in Science may, with the approval of the Amo Pūkaha | College of Engineering Dean (Academic), be exempted from all or part of the First Forestry Examination.
- (e) In cases of Regulations 4(b) through (d) above, the Amo Pūkaha | College of Engineering Dean (Academic) may require a special programme of study prior to entry in the programme.

## 5. Subjects

There are no majors, minors or endorsements for this qualification.

## 6. Time limits

The time limit for this qualification is 10 years.

## 7. Transfers of credit, substitutions and cross-credits

This qualification adheres to the Credit Recognition and Transfer Regulations, with the following stipulations:

- (a) A student enrolled for the Bachelor of Forestry Science who is or has been enrolled for the Bachelor of Commerce may, with the approval of the Amo Pūkaha | College of Engineering Dean (Academic), cross credit a further 15 points from the Bachelor of Commerce Schedule in place of any FORE 400-level elective.
- (b) A student enrolled in the Bachelor of Forestry Science who is or has been enrolled in the Bachelor of Science must, in order to qualify for both degrees:
  - i. meet all requirements for each degree and obtain 180 points above 100-level in courses selected from the Schedule of the Bachelor of Science which have not been credited or used to gain exemption from a course in that degree.
  - ii. Of these points, 90 must be from 300-level courses, and include at least 60 points from a single subject or as required by the subject major. The remainder of the points must come from approved 200 or 300-level courses.
- (c) With the approval of the Amo Pūkaha | College of Engineering Dean (Academic) a student may substitute an additional 15 points of 200 or 300-level courses equivalent from the Bachelor of Science Schedule for any FORE 400-level elective.

## 8. Progression

This qualification adheres to the General Regulations for the University, with the following stipulation:

- (a) In some cases, a student who has not passed all of the courses for a given Forestry Year may be approved to repeat the course(s) or enrol in substitutes while completing the following Forestry Year.

## 9. Honours, Distinction and Merit

This qualification adheres to the General Regulations for the University, with the following stipulations:

- (a) Admission to the BForSc with Honours must be approved by the Amo Pūkaha | College of Engineering Dean (Academic).
- (b) A student may qualify for admission at the end of Year 3 of the BForSc on the basis of grades in courses taken in Years 2 and 3.
- (c) A student for BForSc with Honours will be required to enrol FORE 414 Dissertation in addition to satisfying the requirements of the Fourth Forestry Year. A student whose work has been of a sufficiently high standard shall be recommended for admission to the Degree with First or Second Class Honours. A student obtaining Second Class Honours shall be listed in either of two divisions (Division I or Division II).

## 10. Exit and Upgrade Pathways to other Qualifications

There are no advancing or exit qualifications for this degree.

## 11. Transitional Regulations

A student who has commenced a Bachelor of Forestry Science degree before 2015 shall complete the degree by taking courses approved by the Amo Pūkaha | College of Engineering Dean (Academic) which are consistent with the regulations of the current Calendar.

## Forestry Examinations

### 12. First Forestry Examination

The courses of the First Forestry Examination shall normally be as follows:

- (1) BIOL 112 Ecology, Evolution and Conservation
- (2) FORE 111 Trees, Forests and the Environment
- (3) FORE 131 Trees in the Landscape
- (4) FORE 141 Forest Growth and Measurements
- (5) FORE 151 Commercial Aspects of Forestry
- (6) STAT 101 Statistics 1
- (7) 30 points in electives from 100-level course from any degree of the University.

Notes:

1. A student enrolling in the First Forestry Examination at Te Whare Wānanga o Waitaha | University of Canterbury must complete FORE 111. A student completing the First Forestry Examination at another university should complete FORE 102 or 105 as part of their examination, in lieu of FORE 111.
2. A student who has failed to gain a pass in all of the courses of the First Forestry Examination may, with the approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic) be permitted to repeat the course or courses failed or enrol for approved substitutes concurrently with courses of the Second Forestry Examination.
3. The Chair, Forestry Board of Studies, in consultation with the Amo Akoranga Pūkaha | College of Engineering Dean (Academic), may modify the First Forestry Examination based on prior learning. That modified programme of study may include FORE 105.

### 13. Second Forestry Examination

The courses of the Second Forestry Examination shall normally be as follows:

- (1) FORE 205 Forest Engineering
- (2) FORE 215 Introduction to Forest Economics
- (3) FORE 218 Forest Biology
- (4) FORE 219 Introduction to Silviculture
- (5) FORE 222 Biometry 1A
- (6) FORE 224 Biometry 1B
- (7) SOIL 203 Soil Fertility

*Note: A student who has failed to gain a pass in all of the courses of the Second Forestry Examination may, with the approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic), be permitted to repeat the course or courses failed or enrol for approved substitutes concurrently with courses of the Third Forestry Examination.*

### 14. Third Forestry Examination

The courses of the Third Forestry Examination shall normally be as follows:

- (1) FORE 307 Plantation Silviculture
- (2) FORE 316 Forest Management
- (3) FORE 327 Wood Science
- (4) FORE 342 Geospatial Science in Forest Monitoring and Management
- (5) One course from either the Bachelor of Forestry Science 400-level schedule of electives, or one course offered for any other degree at 200-level or above.

*Note: A student who has failed to gain a pass in all of the courses of the Third Forestry Examination may, with the approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic), be permitted to repeat the course or courses failed or enrol for approved substitutes concurrently with courses of the Fourth Forestry Examination.*

### 15. Fourth Forestry Examination

The courses for the Fourth Forestry Examination shall normally be as follows:

- (1) FORE 419 Management Case Study
- (2) FORE 422 Forest Harvest Planning
- (3) FORE 447 Environmental Forestry
- (4) Three courses from the 400-level schedule of electives:

- (a) FORE 423 Forest Transportation and Road Design
- (b) FORE 426 Forest Products Marketing and International Trade
- (c) FORE 435 Forest Economics 2
- (d) FORE 436 Forest Tree Breeding
- (e) FORE 443 Biosecurity Risk Management
- (f) FORE 475 Independent Course of Study

**Notes:**

1. FORE 422 Forest Harvest Planning is a required course and may be taken in either Year Three instead of an elective or in Year Four.
2. A student is required to complete four electives in total across Years Three and Four from the Forestry Science 400-level schedule.
3. A student's programme of study shall be subject to the approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic).
4. A BForSc student may credit no more than 30 points from other degrees toward BForSc in total in Year Three and Four.

## 16. Field Courses and First Aid Certificate

Every student must complete to the satisfaction of the Board of Studies in Forestry four Field Trips and present proof of completion of NZQA Unit Standard 17769 (Demonstrate Knowledge of General Health, Safety and Environmental Requirements in Forestry), a current approved First Aid Certificate during their period of study, and practical work experience.

### Practical Work

A student is required to obtain practical work experience in forestry, conservation, or forest industry during the summer vacations. The School may assist students in obtaining such work, which will be credited to a student's non-academic requirements only if performed in accordance with the following requirements:

- (a) A student must have completed 90 days work in employment approved by the Tumuaki, Te Kura Ngahere | Head of the School of Forestry no later than the end of examinations in the final year of study.
- (b) Practical work will be credited to a student's course only after confirmation by the student's employer of the number of days worked.
- (c) The Tumuaki Kura, Te Kura Ngahere | Head of the School of Forestry may relax or modify the application of clauses (a) and (b) in individual cases.

## 17. Requirements in Subjects in Other Degrees

Except as otherwise provided in these Regulations, a student enrolling for any course of the BForSc degree which is also a course for examination for any other degree shall comply with such of the Regulations for that degree relating to prerequisites, combinations of courses and practical work as are applicable to that course.

## 18. BForSc with Honours

Admission to candidacy for the BForSc with Honours shall be by approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic).

A student may qualify for admission at the end of Year 3 of the BForSc on the basis of grades in courses taken in Years 2 and 3. A student for BForSc with Honours will be required to enrol in FORE 414 Dissertation in addition to satisfying the requirements of the Fourth Forestry Examination. A student whose work has been of a sufficiently high standard shall be recommended for admission to the Degree with First or Second Class Honours. Each student obtaining Second Class Honours shall be listed in either of two divisions (Division I or Division II).

## 19. Exemption for BSc and BSc(Hons) Graduates

With the approval of the Academic Board, a student who has previously qualified at any Aotearoa New Zealand university for the award of the degree of Bachelor of Science (with or without Honours) or for any other degree may be exempted from the whole or part of both the First and Second Forestry Examinations. A special programme of study, which could include both Year 2 and Year 3 papers, may be approved by the Amo Akoranga Pūkaha | College of Engineering Dean (Academic).

## 20. Exemption for students with NZ Certificate in Forestry, NZ Diploma in Forestry, or NZ Certificate in Science

- (a) Notwithstanding anything contained in these Regulations, a student who has qualified for the New Zealand Diploma in Forestry may, with the approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic), be exempted from parts of the first three Forestry Examinations but the Amo | Dean will require a special programme of study of at least one year but normally two years prior to entry into the Fourth year.
- (b) Notwithstanding anything contained in these Regulations, a student who has qualified with outstanding merit for the New Zealand Certificate in Forestry and who has completed the practical requirements for the award of that Certificate may, with the approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic), be exempted from the whole or part of the First and Second Forestry Examinations. A special programme of study may be approved by the Amo | Dean.

*Note: A student should be adequately prepared in Mathematics and other basic sciences and may be required to undertake additional studies in these subjects before being accepted into the Third Forestry Examination. Students should consult with the Amo | Dean before completing enrolment.*

- (c) Notwithstanding anything contained in these Regulations, a student who has qualified with outstanding merit for the New Zealand Certificate in Science may, with the approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic), be exempted from all or part of the First Forestry Examination.

*Note: This regulation does not make provision for credit towards a BSc degree. If sought this must be applied for separately. See the BSc Regulation 9.*

## 21. Cross Credits between BForSc and BCom Degrees

A student for the Degree of Bachelor of Forestry Science who is or has been enrolled for the Degree of Bachelor of Commerce must, in addition to the credit permitted under Credit Recognition and Transfer Regulations, be permitted, with the approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic), to cross credit a further 15 points (0.125 EFT) from the Bachelor of Commerce Schedule in place of any FORE 400-level elective.

## 22. Cross Credits and Substitutes between BForSc and BSc Degrees

- (a) A student for the Degree of Bachelor of Forestry Science who is or has been enrolled for the Degree of Bachelor of Science must, in order to qualify for the award of both degrees, meet all requirements as laid down in the Regulations for the Degree of Bachelor of Forestry Science and obtain 180 points above 100-level in courses selected from the Schedule of Bachelor of Science which have not been credited to the Degree of Bachelor of Forestry Science or used to obtain exemption from a course in that degree. Of these points, 90 must be from 300-level courses, and include at least 60 points from a single subject or as required by the subject major. The remainder of the points must come from approved 200 or 300-level courses.
- (b) With the approval of the Amo Akoranga Pūkaha | College of Engineering Dean (Academic) a student may substitute additional 200-level courses equivalent to 15 points or 300-level courses equivalent to 15 points from the Bachelor of Science schedule for any FORE 400-level elective.

## 23. Transitional Regulation

A student who has commenced a BForSc degree before 2015 shall complete the degree by taking courses approved by the Amo Akoranga Pūkaha | College of Engineering Dean (Academic) which are consistent with the regulations.