



UNIVERSITY OF  
**AUCKLAND**  
Waipapa Taumata Rau  
NEW ZEALAND

# 2023 Subject Guide for School Students



This guide shows Year 13 school subjects that are recommended or required for University of Auckland degree programmes. **Recommended subjects** are those that are useful for degree preparation, and may contribute to gaining entry. **Required subjects** are those that are needed to gain entry to a degree.

## Gaining Admission

To be admitted to the University, you must:

- have a University Entrance qualification based on NCEA, Cambridge International, IB or another recognised, equivalent qualification
- meet the rank score and any other requirements for your chosen programme

Please note that this guide is based on entry requirements for 2023 and are subject to change. For details on current entry requirements, including University Entrance and selection into a programme, please refer to the University of Auckland website.  
[www.auckland.ac.nz/admission](http://www.auckland.ac.nz/admission)

## Academic English Language Requirement (AELR)

If you are applying for admission to an undergraduate programme and you are a domestic student, or an international student applying on the basis of a New Zealand secondary school qualification or on the basis of results at another New Zealand tertiary institution, in addition to any University Entrance Literacy standard, you must meet the Academic English Language Requirement either through your entry qualification or during your first 12 months of study.

### Meeting the requirement through school qualifications

To satisfy the AELR via an entry qualification from a New Zealand secondary school you must achieve the following:

- For those applying on the basis of **NCEA**: You must have gained the University Entrance Literacy Standard AND a minimum of **17 credits in English at Level 2 and/or 3**.<sup>\*</sup> †

- For those applying on the basis of **Cambridge International**: You must have gained the University Entrance Literacy Standard AND a minimum of a **D grade** in an **English course at AS or A Level**.
- For those applying on the basis of **International Baccalaureate (IB)**: You must have gained the University Entrance Literacy Standard AND be in receipt of 26 points.

### Meeting the requirement in your first 12 months of study

If you do not meet the requirement through your entrance qualification as outlined above, but otherwise qualify for admission, you can satisfy the AELR during your first year of study by passing an academic English language course as part of your General Education programme, or as otherwise specified by your Faculty. For more information please see:  
[www.auckland.ac.nz/aelr](http://www.auckland.ac.nz/aelr)

<sup>\*</sup> Does not apply to applicants who meet the University Entrance Literacy Standard in Te Reo.

† English for Academic Purposes standards US 22750 and US 22751 will contribute to meeting the AELR.

# Arts

| Programme                      | Recommended school subjects                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bachelor of Arts (BA)          | Students will be selected on the basis of their rank score. There are no specific subjects required for admission. However any of the following subjects are recommended: Calculus, Classical Studies, Drama, Economics, English, Geography, History, History of Art, Languages, Mathematics, Media Studies, Music, Psychology, Religious Studies, Social Studies, Statistics, Te Reo Māori, Te Reo Rangatira.                                                        |
| Bachelor of Communication (BC) | Students will be selected on the basis of their rank score. There are no specific subjects required for admission. However any of the following subjects are recommended: Calculus, Classical Studies, Design and Visual Communication, Digital Technologies, Drama, Economics, English, Geography, History, History of Art, Languages, Mathematics, Media Studies, Music, Psychology, Social Studies, Religious Studies, Statistics, Te Reo Māori, Te Reo Rangatira. |

# Business

| Programme                    | School subjects required and/or recommended                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Bachelor of Commerce (BCom)  | Students will be selected on the basis of their rank score.<br><br>Year 13 Statistics and/or Calculus, or Mathematics, are recommended. |
| Bachelor of Property (BProp) | Prior study in Accounting and Economics is beneficial but not essential.                                                                |

# Creative Arts and Industries

| Programme                                                                                                          | School subjects required and/or recommended                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bachelor of Architectural Studies (BAS)                                                                            | Students will be selected on the basis of their rank score and a portfolio of creative work including a written statement. There are no specific subject requirements, however an English-rich/Te Reo Māori subject is strongly recommended and Mathematics, Physics, and/or Digital Technologies is recommended. Art, Design, Technology or equivalent subjects are advisable.                                              |
| Bachelor of Dance Studies (BDanceSt)                                                                               | Students will be selected on the basis of their rank score, CV, written statement and an interview/audition. There are no specific subject requirements. NCEA Level 3 Dance or equivalent offers useful preparation.                                                                                                                                                                                                         |
| Bachelor of Design (BDes)                                                                                          | Students will be selected on the basis of their rank score.                                                                                                                                                                                                                                                                                                                                                                  |
| Bachelor of Fine Arts (BFA)                                                                                        | Students will be selected on the basis of their rank score. There are no specific subject requirements, however Art, Design, Technology or equivalent subjects are recommended.                                                                                                                                                                                                                                              |
| Bachelor of Music (BMus)<br>– Creative Practice: Classical, Composition, Jazz or Popular Music<br>– Music Studies. | Students for a Creative Practice specialisation (Classical, Jazz and Popular Music only) will be selected on the basis of their rank score and audition. A specialisation in Composition or Music Studies has no audition or portfolio requirements. Musical Literacy equivalent to NCEA credits in Level 3 Music Studies or Practical Music, or high grades in NCEA Level 2 Music or Grade 6 Music Theory, are recommended. |
| Bachelor of Urban Planning (Honours) (BUrbPlan(Hons))                                                              | Students will be selected on the basis of their rank score. There are no specific subject requirements, however English-rich subjects are strongly recommended in preparation.                                                                                                                                                                                                                                               |

# Education and Social Work

| Programme                                                                                                                                            | Recommended school subjects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bachelor of Early Childhood Studies                                                                                                                  | Students will be selected on the basis of their rank score, interview, police check, and referees' reports. There are no specific subjects required for admission, however any of the following are recommended: Languages, Classical Studies, Economics, English, Geography, History, History of Art, Mathematics, Science (Biology, Chemistry, Physics), Technology, Te Reo Māori, Te Reo Rangatira, Visual Arts. A high standard of oral and written English is important.<br><br>For the Huarahi Māori specialisation, written and oral fluency in te reo Māori will be assessed to the proficiency descriptors of the Taura Whiri i te Reo proficiency framework. |
| Bachelor of Education – Teaching (BEEd(Tchg))<br>• Primary and Huarahi Māori specialisations (Early Childhood Education is suspended for 2023 entry) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Bachelor of Education – Teaching English to Speakers of Other Languages (BEEd(TESOL))                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Bachelor of Social Work (BSW)                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Bachelor of Sport, Health and Physical Education (BSportHPE) <sup>†</sup>                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

<sup>†</sup>An interview, police check and referees' reports not required.

# Engineering

| Programme                                    | School subjects required and/or recommended                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bachelor of Engineering (Honours) (BE(Hons)) | Students will be selected on the basis of their rank score and subject requirements. NCEA students require 17 external credits in Calculus and 16 external credits in Physics in Level 3; Cambridge International students require A Level Mathematics and Physics; and IB students require Higher Level Mathematics and Physics. Cambridge International AS Level Mathematics and Physics, or IB Standard Level Mathematics "Analysis and Approaches", may be accepted based on level of grade achieved. IB Standard Level Mathematics "Applications and Interpretation" will not be accepted. Any of the following are also recommended: Biology, Chemistry, English-rich subjects (Classics, English, Geography, History, History of Art). |

# Global Studies

| Programme      | Recommended school subjects                                                                                                                                                                                                                                               |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Studies | Students will be selected on the basis of their rank score and a minimum of 16 credits in each of three subjects from the NCEA approved subject list. There are no additional requirements for Cambridge International or IB. Study of a language is strongly encouraged. |

# Law

| Programme                       | Recommended school subjects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bachelor of Laws (LLB (Part I)) | For first year Law, you will apply for LLB Part I and one other bachelors degree programme to satisfy the Law Part I requirement for five non-Law courses. Students will be selected into Part II on the basis of their results in Part I. There are no specific subjects required for admission. Any of the following are recommended: Classical Studies, Economics, English, Geography, History, History of Art, Languages, Te Reo Māori, Te Reo Rangatira. A good standard of oral and written English is important. |

# Medical and Health Sciences

| Programme                                              | School subjects required and/or recommended                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bachelor of Health Sciences (BHSc)                     | Students will be selected on the basis of their rank score and 18 credits in one of Biology, Chemistry or Physics, and 18 credits in one of Classical Studies, English, Geography, History, History of Art, Social Studies, Te Reo Māori or Te Reo Rangatira at NCEA Level 3 or equivalent. For potential applicants to the MBChB, Biology, Chemistry and at least one English-rich subject are strongly recommended. Cambridge International students will be selected on the basis of their rank score and one of English, Geography, History, or Classical Studies, and one of Biology, Chemistry or Physics at full A level. |
| Bachelor of Medical Imaging (Honours) (BMedImag(Hons)) | Applicants for the BMedImag(Hons) must first complete the required Stage One courses as part of the BSc (majors/specialisations that can easily incorporate the required courses are Biomedical Science, Chemistry, Medicinal Chemistry, Pharmacology or Physiology). Biology, Chemistry and at least one English-rich subject are strongly recommended. Physics and Mathematics (Calculus or Statistics) are useful.                                                                                                                                                                                                            |
| Bachelor of Medicine and Bachelor of Surgery (MBChB)   | Applicants for the MBChB must first complete the required Year 1 courses in the BHSc or the BSc (in Biomedical Science). Biology, Chemistry and at least one English-rich subject are strongly recommended. Physics and Mathematics (Statistics or Calculus) are useful.                                                                                                                                                                                                                                                                                                                                                         |
| Bachelor of Nursing (BNurs)                            | Students will be selected on the basis of their rank score and 18 credits in one of Biology, Chemistry or Physics, and 18 credits in one of Classical Studies, English, Geography, History, History of Art, Social Studies, Te Reo Māori or Te Reo Rangatira at NCEA Level 3 or equivalent. Cambridge International students will be selected on the basis of their rank score and one of English, Geography, History, or Classical Studies, and one of Biology, Chemistry or Physics at full A level.                                                                                                                           |
| Bachelor of Optometry (BOptom)                         | Applicants for the BOptom must first complete the required Stage One courses as part of the BSc (majors/specialisations that can easily incorporate the required courses are Biomedical Science, Chemistry, Medicinal Chemistry, Pharmacology or Physiology). Biology, Chemistry and at least one English-rich subject are strongly recommended. Physics and Mathematics (Calculus or Statistics) are useful.                                                                                                                                                                                                                    |
| Bachelor of Pharmacy (BPharm)                          | Applicants for the BPharm must first complete the required Stage One courses as part of the BHSc or the BSc (majors/specialisations that can easily incorporate the required courses are Biomedical Science, Chemistry, Food Science and Nutrition, Medicinal Chemistry, Pharmacology or Physiology). Biology and Chemistry are recommended, plus at least one English-rich subject.                                                                                                                                                                                                                                             |

# Science

| Programme                                              | Recommended school subjects                                                                                                                                                                                                                 |                |                          |                          |                        |               |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|--------------------------|------------------------|---------------|
|                                                        | ✓ Useful                                                                                                                                                                                                                                    | ✓✓ Recommended | ✓✓✓ Strongly Recommended |                          |                        |               |
| Bachelor of Science (BSc)                              | Students will be selected on the basis of their rank score. There are no required subjects. See the list below for preparation subjects relating to the major/specialisations.                                                              |                |                          |                          |                        |               |
| Bachelor of Advanced Science (Honours) (BAdvSci(Hons)) | English-rich subjects (Classical Studies, English, Geography, History, History of Art) are useful for any major, particularly those marked. Computer-based subjects including Digital Technologies are strongly recommended for all majors. |                |                          |                          |                        |               |
| All majors/specialisations                             | Chemistry                                                                                                                                                                                                                                   | Biology        | Physics                  | Statistics / Mathematics | Calculus / Mathematics | English-rich  |
| Anthropological Science                                |                                                                                                                                                                                                                                             | ✓              |                          | ✓                        |                        | ✓✓            |
| Applied Physics                                        |                                                                                                                                                                                                                                             | ✓†             | ✓✓✓                      |                          | ✓✓                     | ✓             |
| Biological Sciences                                    | ✓✓                                                                                                                                                                                                                                          | ✓✓             |                          | ✓                        |                        | ✓✓            |
| Biomedical Science                                     | ✓✓✓                                                                                                                                                                                                                                         | ✓✓             | ✓                        | ✓ One of either          |                        | ✓             |
| Chemistry                                              | ✓✓                                                                                                                                                                                                                                          |                | ✓                        | ✓ One of either          |                        | ✓             |
| Computational Biology                                  |                                                                                                                                                                                                                                             | ✓✓             | ✓                        | ✓✓                       |                        | ✓✓            |
| Computer Science                                       |                                                                                                                                                                                                                                             |                | ✓                        |                          | ✓✓                     | ✓✓            |
| Data Science                                           |                                                                                                                                                                                                                                             |                |                          | ✓ One or both            |                        | ✓✓            |
| Earth Sciences                                         | ✓                                                                                                                                                                                                                                           |                | ✓                        | ✓ One of either          |                        | ✓✓ Geography  |
| Environmental Change                                   | ✓                                                                                                                                                                                                                                           | ✓✓             |                          | ✓✓ One of either         |                        | ✓✓ Geography  |
| Environmental Physics                                  |                                                                                                                                                                                                                                             |                | ✓                        |                          | ✓                      | ✓             |
| Environmental Science                                  |                                                                                                                                                                                                                                             | ✓              |                          | ✓✓ One of either         |                        | ✓✓ Geography  |
| Exercise Sciences                                      | ✓                                                                                                                                                                                                                                           | ✓✓             | ✓                        | ✓                        |                        | ✓             |
| Food Science and Nutrition                             | ✓✓                                                                                                                                                                                                                                          | ✓✓             | ✓                        | ✓✓ One of either         |                        | ✓✓            |
| Geographic Information Science                         |                                                                                                                                                                                                                                             |                | ✓                        | ✓✓                       | ✓                      | ✓✓ Geography  |
| Geography                                              |                                                                                                                                                                                                                                             |                |                          | ✓✓                       | ✓                      | ✓ Geography   |
| Geology                                                | ✓                                                                                                                                                                                                                                           |                | ✓                        | ✓ One of either          |                        | ✓✓ Geography  |
| Green Chemical Science                                 | ✓✓✓                                                                                                                                                                                                                                         | ✓✓             | ✓                        | ✓ One of either          |                        | ✓✓ Geography  |
| Information and Technology Management                  |                                                                                                                                                                                                                                             |                |                          | ✓✓ One of either         |                        | ✓✓ Geography* |
| Logic and Computation                                  |                                                                                                                                                                                                                                             |                |                          | ✓                        | ✓                      | ✓             |
| Marine Science                                         | ✓✓                                                                                                                                                                                                                                          | ✓✓             |                          | ✓                        |                        | ✓             |
| Mathematics                                            |                                                                                                                                                                                                                                             |                |                          | ✓✓                       | ✓✓✓                    | ✓✓            |
| Medicinal Chemistry                                    | ✓✓✓                                                                                                                                                                                                                                         | ✓✓             | ✓✓                       | ✓ One of either          |                        | ✓✓            |
| Pharmacology                                           | ✓✓✓                                                                                                                                                                                                                                         | ✓✓             | ✓✓                       | ✓ One of either          |                        | ✓✓            |
| Physics                                                |                                                                                                                                                                                                                                             | ✓†             | ✓✓✓                      |                          | ✓✓                     | ✓             |
| Physiology                                             | ✓✓✓                                                                                                                                                                                                                                         | ✓✓             | ✓✓                       | ✓ One of either          |                        | ✓✓            |
| Psychology                                             |                                                                                                                                                                                                                                             | ✓✓             |                          | ✓✓                       |                        | ✓✓            |
| Quantitative Economics                                 |                                                                                                                                                                                                                                             |                |                          | ✓ One of either**        |                        |               |
| Statistics                                             |                                                                                                                                                                                                                                             |                |                          | ✓✓                       | ✓✓                     | ✓             |

\*Accounting is also useful preparation.

\*\* Economics is also useful preparation

†Biology is recommended for students with an interest in Medical Physics.



## Got questions?

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and support centre.  
**AskAuckland.ac.nz**

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