



SUBJECT OPTION HANDBOOK

2012





Section One

Introductory Information

- Course Selection
- University of Cambridge
International Examinations
- University Entrance
- Subject requirements for Careers

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Introduction

This Course and Subject Handbook is designed to provide you with the essential details of the courses and subjects offered by the College and to assist you in carefully planning and making decisions for the year(s) ahead.

In Primary to Year 10 ACG Parnell College offers a comprehensive programme based upon the New Zealand National Curriculum, with a strong emphasis on numeracy and literacy.

Students at all levels of the middle school have specialist teachers in each subject. Information Technology and Thinking skills are also taught to enable students to have the best tools available for successful learning.

Gifted and talented students are identified and extended through enrichment and accelerated learning programmes in each subject. Opportunities for students to advance to higher levels in Mathematics and Science in Years 8, 9 and 10 are available to students who could benefit from extension.

In Years 11 to 13 ACG Parnell College offers a balanced and challenging curriculum, which aims to prepare students for high levels of success in the CIE examinations and for a diverse range of courses at tertiary level leading to a wide range of career opportunities.

The ACG Parnell College Core Values underpin all teaching and learning in all subject areas.

Where subject choices are to be made (mostly in the senior years 11 – 13), in addition to the detail enclosed please seek the guidance of your subject teachers and deans. If you require more general information about programmes of work, you are welcome to contact Mrs van der Loos or Mrs Anne McAtee. Included on pages 22 to 33 you will find information on the University of Cambridge International Examinations (CIE) and Entrance Qualifications to Tertiary Institutions and Careers. Please contact Mrs van der Loos if you would like any further information, or you may choose to visit www.cie.org.nz.

We trust that you will find this Handbook helpful as you consider future course choices and career pathways.

March 2011

Choosing the right course.....

To make well informed subject choices, you will need to think carefully as you take the following steps:

Assess your ability in subjects:

- ✓ Consider your results - your individual ability - and discuss these with your teachers and parents

Future course requirements:

- ✓ Be very careful - don't narrow your options by dropping essential subjects, especially sciences, mathematics and some arts subjects.

Find out what courses cover:

- ✓ Read this Course and Subject Handbook carefully
- ✓ Talk to teachers and senior students
- ✓ Borrow another student's subject folder and consider the content - what is the subject really about and will you enjoy it?

Think about the importance of your interest in the subject:

- ✓ Do you really enjoy it or do you just like the teacher?
- ✓ Don't just do what your friends are doing

Need help?

Mrs van der Loos, Deans, Tutors and teaching staff can all assist.

In summary - option choices are determined by an evaluation of:

- ✓ Previous year's study
- ✓ Necessity for future career flexibility
- ✓ Ability - discuss with subject teachers and don't underestimate the effect of hard work and committed effort
- ✓ Interest in and enjoyment of the subject

SUBJECT LIST Years 0 to 6

Subjects Offered 2012

Years 0 to 4	Years 5 & 6
English	English
Mathematics	Mathematics
Science	Science
Humanities	Humanities
Physical Education	Physical Education
Music	Music
Drama	Drama
Art	Art
	Spanish

Students in Years 0 to 6 will study all of the subjects offered above.

In Years 0 to 6 ACG Parnell College Primary School offers curriculum philosophies and teaching pedagogies based on a combination of the New Zealand Curriculum and the Cambridge International Primary Programme. The Primary Programme emphasises the development of a solid foundation in the fundamentals of Literacy and Numeracy with the timetabled teaching of Science, Humanities, Drama, Physical Education, Music, Spanish (Years 5 and 6) and Art.

SUBJECT LIST Years 7 to 10

Subjects Offered - 2012

Year 7	Year 8	Year 9	Year10
English	English	English	English
Mathematics	Mathematics	Mathematics	Mathematics IGCSE Maths (Ext)
Science	Science	Science	Science IGCSE Combined Science (Ext)
Humanities	Humanities	Humanities	Humanities
Spanish (1/2 year)	Spanish or	Spanish or	Spanish or
Chinese (1/2 year)	Chinese	Chinese	Chinese
PE	PE	PE	PE
Art	Art	Art	Art
Music	Music	Music	Music
Drama	Drama	Drama	Drama
ICT	ICT	ICT	ICT
Thinking Skills	Thinking Skills	Thinking Skills	

Students in Years 7 to 10 will study all the subjects offered above. They will, however, choose between Spanish and Chinese Mandarin in Years 8 , 9 and 10.

SUBJECT LIST Years 11 to 13

*Subjects Offered - 2012

IGCSE	AS	A2
<i>Arts</i>		
Music	Drama	Graphic Design
Art and Design	Music	Music
	Graphic Design	Painting
	Photography	Photography
	Painting	Painting
Design and Technology	Design and Technology	Design and Technology
<i>Commerce</i>		
Accounting	Accounting	Accounting
Business Studies	Business Studies	Business Studies
Economics	Economics	Economics
<i>Humanities</i>		
History	History	History
Geography	Geography	Geography
	Classical Studies	Classical Studies
<i>English</i>		
English Literature and English Language	Literature in English or English Language	Literature in English
<i>Languages</i>		
Spanish	Spanish	Spanish
Chinese	Chinese	
<i>Mathematics</i>		
Mathematics (Core)		Mathematics
Mathematics (Extended)	Mathematics	
<i>Physical Education</i>		
Physical Education	Physical Education	Physical Education
<i>Science & Technology</i>		
Biology	Biology	Biology
Chemistry	Chemistry	Chemistry
Physics	Physics	Physics
		Computing
Information Technology	Computing	
* Subject to numbers. The ACG Board has confirmed these subjects offered for 2010		NB: Students will be offered the opportunity to sit NCEA Scholarship Examinations in Year 13

Course Selection Guide for University of Cambridge International Examinations

YEAR 11

Students usually take six IGCSE subjects, plus Physical Education (1 period per week)

<i>Core Subjects</i>	English Language English Literature Mathematics		
<i>Option Choices</i>	3 subjects chosen from:		
	Accounting	Chemistry	History
	Art and Design	Drama (AS)	Spanish
	Biology	Economics	Music
	Business Studies	Geography	Physics
	Design and Technology	Physical Education	Information Technology
	Chinese	Plus AS subjects for those who meet the entry criteria	

- **Students are advised to select a broad course in order to keep future options open – it can be difficult to be successful in certain AS courses without prior experience in those subjects. Over-specialisation at this level can block pathways in the future.**
- **It is prudent to include subjects from different disciplines: at least one from the Sciences and one from the Humanities.**

Approximate costs of IGCSE Courses

(Final cost depends on exchange rates and CIE charges)

IGCSE Subjects	Cost of Entry	Additional costs
Accounting	\$100.00	Text book
Art & Design	\$200.00	Art pack (approx \$262) Printing costs (approx \$50) Memory stick
Biology	\$100.00	Text book
Business Studies	\$100.00	Text book
Chemistry	\$100.00	Text book
Combined Science	\$100.00	Text book
Design & Technology	\$100.00	Design Tech pack (approx \$280) Printing costs (approx \$50) Memory stick
Economics	\$100.00	Text book
First Language English	\$100.00	Text book
Geography	\$100.00	Field trip approx \$50 Text book
History	\$100.00	Text book
Information Tech	\$100.00	Toshiba notebook (cost approximately \$1200 to \$3000) please see Miss Smith
Literature (English)	\$100.00	Text book
Mathematics	\$100.00	Text book
Physics	\$100.00	Text book
Spanish	\$100.00	Text book
Chinese	\$100.00	Text book
PE	\$100.00	Camp approx \$150
Music	\$100.00	Text book

Text books range in price from \$20 to \$105

YEARS 12 AND 13

Students usually take eight subject units over two years. AS or A2 subjects require four lessons per week each.

An IGCSE subject requires approximately 330 minutes of instruction per week. To gain entry to limited entry courses, only six subject units are required. This allows students the option of including up to two courses, other than those on the AS/A2 list below, from the IGCSE course options.

The literacy requirement for University Entrance is a minimum grade E in AS English, or 8 credits in NCEA Level 2 English (4 credits in reading and 4 in writing). All students must take English for at least one year in Years 12 or 13.

AS and A2 Subject List (*All courses have been confirmed by the Board. Classes will be confirmed subject to suitable class sizes.*)

	AS SUBJECTS	A2 SUBJECTS
Arts	Drama Music Graphic Design Photography Design and Technology Painting	Music Graphic Design Photography Design and Technology Painting
Commerce	Accounting Business Studies Economics	Accounting Business Studies Economics
Humanities	History Geography Classical Studies	History Geography Classical Studies
English	English Literature <i>or</i> English Language	Literature in English
Languages	Spanish Chinese	Spanish
Mathematics	Mathematics	Mathematics
Physical Education	Physical Education	
Science & Technology	Biology Chemistry Physics	Biology Chemistry Physics
Information Technology	Computing	Computing
<i>Students may sit NCEA Scholarship Examinations in Year 13</i>		

- It is not possible to take an A2 course in a subject without successfully completing the AS course.
- Students applying to overseas universities should plan to complete three full A Levels.

Approximate costs of A Level Courses

(Final cost depends on exchange rates and CIE charges)

There is a \$50 Candidate Fee for all A Level candidates plus the fee for each individual subject as follows:		
Accounting	\$75.00	Text book
Art & Design (Graphic Design)	\$150.00	Workbook \$20 Printing costs (approx \$50) Memory stick Additional design supplies
Art & Design (Painting)	\$150.00	Workbook (from PC shop) \$20 Printing costs (approx \$50) Memory stick Additional art supplies
Biology	\$75.00	Text book
Business Studies	\$75.00	Text book
Chemistry	\$75.00	Text book
Classical Studies	\$75.00	Text books (approx \$120)
Computing	\$75.00	Laptop approved by the teacher (Miss Smith) by August 7, 2009. (must run Windows XP or Vista, minimum 1GB RAM, wireless capable) 1 exercise book 2 textbooks (theory/programming covers both years)
Design & Technology	\$75.00	Clear Files (from PC shop) \$56 Printing costs (approx \$50) Memory stick Additional design supplies
Drama	\$75.00	Text book
Economics	\$75.00	Text book
English Language	\$75.00	Text book
English Literature	\$75.00	Text book
Geography	\$75.00	Text book and Field Trip (approx \$200)
History	\$75.00	Text book
Mathematics	\$75.00	Text book
Photography	\$150.00	SLR Digital Camera (cost approximately \$1000) Printing costs (approx \$50) Photography paper (from PC shop) \$80 Memory stick Additional photographic supplies
Physical Education	\$75.00	Camp approx \$400 Text Book

Physics	\$75.00	Text book
Spanish	\$75.00	Text book
AS Chinese	\$75.00	Text book
AS Music	\$75.00	Text book plus CDs of set works.

- *Text books range in price from \$20 to \$105/ some textbooks cover both AS and A2*
- *Art students at A2 level will only need to top up their Art Pack as required*
- *Laptops used for AS Computing will also be suitable for A2 Computing (for 2010).*

University of Cambridge International Examinations

IGCSE (International General Certificate of Secondary Education) is the first level of the Cambridge examination system and is the entry point for Year 11 students. Students are required to take Mathematics, English Language and English Literature. A pure science is normally recommended, along with two other subject options, giving a total of six IGCSEs. Every student will also complete a Fitness programme.

AS (Advanced Subsidiary) courses are the first half of a two year A level (Advanced level) course. This is the stage when most students begin to specialise and is the entry point into a subject for many Year 12 and Year 13 students, providing they have the necessary Year 11 qualifications. Some AS subjects can be taken without an IGCSE as a prerequisite in that subject. Check this Course and Subject Handbook for details.

A2 courses are the second half of an A level – they upgrade an AS into a full A level qualification. These are usually taken by students keen to become specialists in a field and usually require that the AS course in that subject has been studied and passed (normally grade D or better).

It is expected that a Year 12 course be mostly AS subjects but may include some IGCSE subjects. While most Year 12 students will undertake a course of four AS subjects, a few will choose to include an additional A or IGCSE subject. These may be taken to widen course options or to provide a better base for future study.

It is expected that a Year 13 course be mostly a combination of AS and A2 subjects. Depending on the combination of levels, in general, a student would take three or four courses in their final year at ACG Parnell College.

University Entrance (UE)

UE standards for CIE students are based on a UCAS (University and Colleges Admissions Service) Tariff system, determined by the following table:

<i>Grade</i>	<i>Approximate mark range</i>	<i>UCAS points awarded</i>	
		A level	AS level
A*	90%+	140	---
A	80%+	120	60
B	70-79%	100	50
C	60-69%	80	40
D	50-59%	60	30
E	40-49%	40	20

Passing grades available for AS and A level are A – E. Papers not meeting these levels are deemed to be Ungraded (U).*

Half credits (e.g. Statistics) count for half of the points for AS subjects

For limited entry courses at the University of Auckland, UCAS points will be accumulated from the best six subject units (credits) taken over a two year period.

For UE all students are required to meet a General Subject Standard, and reach specified standards in both Literacy and Numeracy.

UE Minimum Requirements

	<i>CIE</i>	<i>NCEA</i>
<i>General Subject Standard</i>	Minimum of 120 points from A or AS Levels and a minimum grade of D in each of at least three subjects equivalent to those on the approved list . (International students may be required to achieve more than 120 points.)	Minimum of 42 credits at level 3 or higher on the NQF, including a minimum of 14 credits at level 3 or higher in each of two subjects from the approved subject list, with a further 14 credits at level 3 or higher taken from no more than 2 additional domains on the NQF or approved subjects.
<i>Numeracy Standard</i>	Minimum grade of D in IGCSE Mathematics or minimum grade of E in IGCSE Additional Mathematics.	Minimum of 14 credits at level 1 or higher in Mathematics or Pangarau on the NQF.
<i>Literacy Standard</i>	Minimum grade of E in any one of AS English Language, AS Literature in English, AS English Language & Literature	Minimum of 8 credits at level 2 or higher in English or Te Reo – 4 credits must be in Reading and 4 credits must be in Writing. The literacy credits will be selected from a schedule of approved achievement standards and unit standards.
<i>The approved list of subjects is currently under review. Points from this subject will still accumulate towards the six best grades for entry to a limited entrance course at the University of Auckland but for the moment may not be included in the General UE Standard as shown above.</i>		

Students gain an A Level grade in a subject either by sitting all A Level papers in one session or by sitting AS papers and A2 papers at separate sessions (this is called staged assessment) over a 13 month period. In the latter case, the AS grade is carried forward and absorbed into the A Level grade and it cannot be used separately. AS marks may only be carried forward once. If students repeat papers sat for AS the better of these results will count for A Level.

Overseas Universities:

Although University Entrance may be gained by students with AS courses most Universities overseas will require full A Levels for entry.

ACG PARNELL COLLEGE – Curriculum Flow Chart			
YEAR 7	YEARS 8-10	IGCSE / NCEA I I	YEARS 11-13
			A5
			A2
Music	Music	Arts	Music
Drama	Drama	Music	Drama
Art	Art	Art and Design	Graphic Design
			Photography
			History of Art
		Design & Technology	Design & Technology
		Commerce	
		Accounting	Accounting
		Business Studies	Business Studies
		Economics	Economics
		Humanities	
Humanities	Humanities	History	History
		Geography	Geography
			Classical Studies
		English	
English	English	English Literature and English Language	English Literature or English Language
			ESOL
		Languages	
Spanish (half year)	Spanish or Chinese	Spanish	Spanish
Chinese (half year)	Chinese	Chinese	Chinese
		Mathematics	
Mathematics	Mathematics	Mathematics (Core)	Mathematics
		Mathematics (Extended)	
		Physical Education	
Physical Education	Physical Education	Physical Education	Physical Education
		Science and Technology	
Science	Science	Biology	Biology
	Yr 10 IGCS Combined SCI (Extension)	Chemistry	Chemistry
		Physics	Physics
ICT	ICT	Information Technology	Computing
Thinking Skills	Thinking Skills		

Students will be offered the opportunity to sit NCEA Scholarship Examinations

▲ = pre-requisite course
 ▲ = not a pre-requisite course

ACG PARNELL COLLEGE

General Frequently-asked Questions about Cambridge International Examinations (CIE)

Why would students take CIE in preference to NCEA?

Students can enter tertiary study from either CIE or NCEA. We have chosen to offer CIE because we believe our students will be better prepared when they enter tertiary study.

Are CIE exams more difficult than NCEA?

It is hard to compare the two systems as they use different means to assess students. However, it is important to remember that AS and A Level courses are 170-180 hours long so more content is covered than in comparable NCEA courses (the latter being 120 hours long). This extra time will allow more content to be covered and this may make it appear that some CIE subjects are 'harder'.

At university, will CIE students have to repeat work done during their year 13 in CIE?

In most subjects the material covered in the final year of school courses is not the same as the first year university courses. However, if there is clear evidence that a student has covered a course to a high level there are systems available to consider exemptions.

Are employers aware of the CIE system? Has it been well publicised to them?

Considerable work has been done with universities to inform them about CIE, and work with employers is continuing.

Are there differences between CIE exams and the Cambridge exams sat in England?

In many subjects the content is very similar and certainly the standards are almost identical. The content in mathematics and science is similar to that used in the UK. Some CIE subjects will not have as great an emphasis on New Zealand content. While this may be seen to be a disadvantage in some subjects, the wider international perspective of CIE can be seen as an advantage overall.

On what basis were CIE exams created for countries outside UK? Are they aimed at international schools for expatriates, ESOL students, or whom?

CIE created examinations for students outside the UK in the 1880's as a response to requests from other English-speaking countries for qualifications that would enable them to attend Cambridge University. Later, as the University system grew in the UK, more countries took on these examinations and others began to use Cambridge as a benchmark for their own national systems. These international examinations were based on the same curricula and schemes of assessment as those used in UK. This is mostly still the case, except that Cambridge has become more responsive to the fact that the students living outside the UK have different cultural backgrounds and sometimes different language skills. Cambridge examinations are not aimed at any one market. They are sufficiently broad in their compass to appeal to a number of users wishing to gain an internationally recognised qualification.

What are New Zealand based courses?

The Association of Cambridge Schools in New Zealand (ACSNZ) has established several courses to provide for the special needs of New Zealand students and to maintain continuity with courses already accepted as part of the NZ curriculum. The syllabus and assessment standards have been carefully assessed by CIE and sample examination papers and model answers have been approved. Examinations are set and marked in NZ and are moderated by CIE. The courses are all examined in November.

Specific Questions about CIE

• Are CIE marks scaled?

CIE is not a 'norm referenced' qualification. That means the percentage of students achieving a certain grade will vary from year to year and it is not pre-determined. Grades are based on standards that have been set and maintained over a period of time. Experienced examiners are able to assess whether grade boundaries should be adjusted to ensure similar standards are maintained from year to year, while detailed procedures are in place to check standards between subjects.

• Will my CIE grades be accepted by universities outside New Zealand?

CIE grades are widely accepted. The Universities and Colleges Admissions Service (UCAS) in the UK has determined that CIE grades and qualifications are to be accepted as equivalent to UK qualifications. A Levels are known and accepted worldwide. Each country or university will have different entry standards and you should check these well ahead of when you apply. In addition, many prestigious universities (such as Oxford and Cambridge) will require an interview as part of their selection. If you are considering overseas study, you are advised to include three A Level subjects in your course of study.

• Must I complete an IGCSE course before I sit an AS subject?

There is no requirement that you must complete an IGCSE course first. However, if you are to succeed, you will need an appropriate level of competence and knowledge in a subject before proceeding to a higher level. You may have gained this through a different qualification. As a guide, a C grade in IGCSE is desirable before proceeding to AS and a minimum of a D grade in AS is recommended before attempting A Level. Teachers will be able to assist you to decide if your prior learning is sufficient to proceed.

• Will I get my examination papers back?

CIE has a large number of candidates from all over the world. Hence it does not return scripts to students.

• Can I ask for my examination result to be reviewed?

A fee will be payable before your paper will be reviewed – a range of checking processes can be sought.

- **Can I combine courses from different levels?**

Yes you may study different subjects at different levels. Some courses will be based on courses at a lower level so you should consult your teachers for specific advice.

- **What is Coursework?**

Coursework is work that is assessed in the school by the teachers. This includes projects, folios of essays, field work, art and craft items, design studies, internally set and assessed speaking tests, practical work, assignments and experiments assessed during the course. This work is moderated by CIE. This means that either all the work or a selection of the work is sent to the UK for checking. Marks will then be confirmed or adjusted according to the results of the sample. In some subjects, coursework is a compulsory component. In others, schools have the option of selecting a coursework or a non-coursework option.

- **How can I find out more about CIE?**

The CIE website www.cie.org.uk has extensive material about CIE qualifications and examinations. This includes course outlines for subjects at all levels as well as specimen and past examination papers. In addition there is considerable material on the CIE student website www.cambridgestudents.org.uk. You can also contact the ACSNZ Administrator or the CIE Representative in New Zealand for more information.

- **How much time is needed to complete an IGCSE course?**

CIE states that IGCSE is a two-year course. However, Year 9 and Year 10 programmes will have covered part of your course material. Hence IGCSE courses can usually be covered in a one-year programme in NZ schools. You will normally need about 120 hours of class tuition for IGCSE.

- **How much teaching time is needed for an AS or A2 course?**

You will need to spend about 170-180 hours per course. This is considerably more than is needed for an NCEA course so most students will study four subjects each year for AS or A Level.

- **Will I get grades only or will I know my marks?**

New Zealand students receive both a mark and a grade for each subject examination sat. For example, your result may be a mark of 74% in AS History and a B grade. The grades that can be achieved for IGCSE range from A* to G. For AS and A Level they range from A to E. No mark will be given if you fail to achieve a grade (you are Ungraded).

- **What is the difference between A Level and A2?**

To complete an A Level you must sit both AS and A2 papers. This may be done at two separate examination sessions (within a 13-month period) or all papers may be sat at the one session. If you sit them separately, the results will still be combined.

- **What is a 'staged assessment'?**

This is when the AS and A2 papers are sat at separate examination sessions. A staged assessment is possible in most subjects. However, in a small number of subjects (notably languages) a full A Level must be completed at the one examination session.

- **Can I just enter for A2?**

No – A2 is not a qualification and can only be taken in conjunction with AS papers (either from the same or an earlier examination session) towards a full A Level.

- **Can I resit papers to improve my grades in a subject?**

Yes, you may resit at any subsequent examination session. The higher marks from the two sets of AS results you have gained will count. However, for AS and A Level you will need to complete all papers within a 13-month period.

- **What is a 'compensatory AS'?**

If you have not previously sat AS papers and you sit a full A Level, it is possible to receive a compensatory AS (based on how you performed in these papers) if you do not meet the standard for an A Level grade.

Guidelines for students

The following guidelines are designed to give students guidance on the level of achievement they need in order to be successful at the next level of study. Students should however, discuss their courses with Faculty Coordinators if they are concerned.

Year 11: Look for a balanced course

- At least one science subject is recommended, but not three
- Three commerce or humanities subjects are not recommended
- Aim to get the highest qualification of which you are capable in Mathematics.

IGCSE to AS

Subjects with Pre-requisites:

AS Subject	Recommended grade achieved
Painting, Graphic Design	C in Art and Design
Music	C
English Language	D
English Literature	C
Spanish	B
Mathematics	B (Ext)
Biology	C
Chemistry	66%
Physics	66%
Design Technology	C in Art & Design or Design Technology
Drama	No pre-requisites for AS Drama

AS to A2

Students should achieve a D in the AS course. They could consider a good E (>45%) but only if the student is likely to achieve the minimum 3 D's requirement.

Planning a Year 12/13 Programme

International students need to aim for 140 points.

Students should list all the subjects they wish to take in the last two years of school. List the 2 or 3 subjects they in which they are likely to specialise, that is they will take to A2, then place the subjects into 2 lists: Year 12 and Year 13.

Cambridge International Examinations (CIE) The University Entrance Standard

You will be qualified for entrance to a New Zealand university in 2011 if you have obtained:

- 120 points* on the UCAS Tariff including a minimum grade of “D” in each of at least two subjects equivalent to those in the list approved for NCEA at AS or A Level; plus a minimum grade of “D” in one further subject either from the approved list or related to a domain on the National Qualifications Framework at AS or A Level

Plus

- a “D” pass or higher in IGCSE Mathematics

plus

- an “E” pass or higher in AS English.

* Should an applicant obtain 3 “D” grades, totalling fewer than 120 UCAS Tariff points, the applicant may include points from any one additional subject available for CIE to make up the difference between 90 and 120 points.

Note: NZVCC has recognised Business Studies as equivalent to an approved subject.

Selection into a Programme

For selection into a programme you will be ranked according to a rank score obtained from your UCAS tariff points accumulated over a maximum of six subject units in the last two years, in subjects at AS, A2 or A Level from subjects that match those of NCEA. The Faculty of Business and Economics will include the subjects Psychology, Sociology and Legal Studies in making selections.

The rank score will be calculated from your UCAS Tariff points. At AS level, 60 points are awarded for A, 50 points for B, 40 points for C, 30 points for D and 20 points for E. An A level counts as two subject units, therefore 120 points are awarded for A, 100 points for B, 80 points for C, 60 points for D and 40 points for E. The maximum rank score is 360. A CIE rank score may differ from the UCAS Tariff used for University Entrance because only subjects equivalent to approved NCEA subjects are used for ranking.

Example of how a rank score for CIE is calculated					
Subject	Level	Subject units	Grade	Tariff points	Rank Score
Biology	AS	1	D	30	Nil*
Chemistry	A	2	B	100	100
English	AS	1	C	40	40
Mathematics	A	2	B	100	100
Physics	AS	1	B	50	50
Rank score					290
* Maximum six subject units. If more are achieved, the best six scores are used.					

Faculties may consider applicants who do not reach the selection standard required for their programme.

For entrance to some University of Auckland qualifications, you need to have completed subjects listed in Tables A and B in the table below. Check the subjects required for your proposed programme against the CIE rank score, subject and credit requirements table below. Remember, a maximum of six subject units in total is required for ranking purposes. The requirements include up to three subjects. You are free to choose further subjects to make up the six units required. Refer to the careers adviser at your school for information on approved subjects.

Please note there are additional requirements such as a portfolio, an audition, or an interview for selection to some qualifications (see 'Other requirements' in the CIE rank score, subject and credits requirements table below).

For more information about individual programme requirements refer to the relevant faculty website and handbook.

Table A	Table B
Classical Studies	Accounting
English	Biology
Geography	Business Studies
History	Chemistry
History of Art	Economics
	Mathematics
	Physics

Conjoint programmes

If you are applying for a conjoint programme you must satisfy the subject requirements of both programmes and will be ranked in accordance with the procedures outlined above.

For more information about admission to The University of Auckland contact the Admissions Office:

Phone: +64 9 373 7599 ext 85013 or 82876
 Email: admission@auckland.ac.nz

International students applying with CIE

International students applying to The University of Auckland on the basis of CIE will need to gain the University Entrance Standard and will also be ranked. International students will be required to achieve a higher rank score than domestic students. If you are an international student whose first language is not English, you will not be able to factor credits obtained in your first language into your ranking.

International students should contact Auckland International with their admission queries:

Phone: +64 9 373 7513

Fax: +64 9 373 7405

Email: int-questions@auckland.ac.nz

www.auckland.ac.nz/international

Cambridge International Examinations (CIE) - rank scores, subject and credit requirements (Points required for programmes 2011 will be updated throughout 2010)

Programme	Rank score, subject and credit requirements	Other requirements
Bachelor of Architectural Studies (BAS)	Students who meet the University Entrance Standard (including the subject requirements below) will be selected on the basis of their portfolio. One subject from Table A and one subject from Table B	Portfolio. An interview may be required.
Bachelor of Arts (BA) ¹ Certificate in Arts (CertArts)	Rank score of 110	Nil
Bachelor of Business and Information Management (BBIM)	Rank score of 150 with three subjects from Table A and/or Table B	Nil
Bachelor of Commerce (BCom)	Rank score of 150 with three subjects from Table A and/or Table B	Nil
Bachelor of Education (Teaching) (BEd(Tchg)) ² Diploma of Teaching (ECE) (DipTchg(ECE)) ²	Rank score of 110	Interview and referees' reports. Applicants must be capable of meeting the requirements of the New Zealand Teachers Council.

Bachelor of Engineering (Honours) (BE(Hons))	Rank score of 280 with Mathematics and Physics (full A levels preferred) from Table B	Nil
Bachelor of Fine Arts (BFA)	Students who meet the University Entrance Standard will be selected on the basis of their creative work and an interview.	Portfolio and interview.
Bachelor of Health Sciences (BHSc)	Rank score of 200 with one subject from Table A and one subject from Table B*	Nil * From 2011, A Level in one subject from Table B preferred
Bachelor of Human Services (BHumServ) ²	Rank score of 110	Interview, referees' reports and other checks on suitability are required.
Bachelor of Laws (LLB (Part I))	Students must be offered a place in another bachelors degree. Entry will be based on the guaranteed scores for the other bachelors degree.	Students will be selected into Part II on the basis of their results in Part I.
Bachelor of Music (BMus) - Jazz, Performance and Popular Music majors - all other majors	Students who meet the University Entrance Standard will be selected on the basis of an audition. Rank score of 110	An audition is required for applicants taking the major in Jazz, Performance and Popular Music.
Bachelor of Nursing (BNurs)	Rank score of 170 with one subject from Table A and one of Biology, Chemistry, Physics from Table B	Nil
Bachelor of Performing Arts (BPerfArts)	Students who meet the University Entrance Standard will be selected on the basis of their CV and an interview. An audition may also be required.	Applicants may be asked to demonstrate performance skills at an audition. A CV plus an interview will be required.
Bachelor of Pharmacy (BPharm)	Rank score of 210 with Biology and Chemistry from Table B*	Interview * From 2011, A level in Biology and Chemistry preferred

Bachelor of Physical Education (BPE) ²	Rank score of 110	Interview and referees' reports. Applicants must be capable of meeting the requirements of the New Zealand Teachers Council.
Bachelor of Planning (BPlan)	Rank score of 210	Nil
Bachelor of Property (BProp)	Rank score of 150 with three subjects from Table A and/or Table B	Nil
Bachelor of Science (BSc) ³ - Biomedical Science - Sport and Exercise Science - all other majors/specialisations Certificate in Science (CertSci)	Rank score of 240 Rank score of 180 Rank score of 140 Rank score of 140	Nil
Bachelor of Social Work (BSW)	Rank score of 110	Interview and referees' reports. Applicants must be capable of meeting the requirements of the Social Workers' Registration Act.
Bachelor of Technology (BTech) - Biotechnology, and Medical Physics and Imaging - Information Technology and Optoelectronics	Rank score of 240 Rank score of 140	Nil
Bachelor of Theology (BTheol) ⁴	Rank score of 110	Nil
Bachelor of Visual Arts (BVA)	Students who meet the University Entrance Standard will be selected on the basis of their submitted creative work and an interview	Portfolio and interview

Applicants for the Bachelor of Medicine and Bachelor of Surgery (MBChB) must first complete Year 1 of either the BHSc or the BSc in Biomedical Science, or have completed another degree approved by the Faculty of Medical and Health Sciences. Applicants for the Bachelor of Optometry (BOptom) must first complete the common year of the BSc in Biomedical Science involving set courses in Biology, Chemistry, Physics and Health Sciences (or equivalent) or have completed another degree approved by the Faculty of Science.

Conjoint programmes

- Not all degree programmes have conjoint options. For a list of conjoint options available, see: [conjoint programmes](#).

Applicants must achieve the greater of the two rank scores for their selected programmes.

Programme	Rank score, subject and credit requirements	Other requirements
Bachelor of Arts conjoins	Rank score of 210.	Nil.
Bachelor of Commerce conjoins	Rank score of 210 with three subjects from Table A and/or Table B.	Nil.
Bachelor of Engineering (Honours) conjoins	Rank score of 300 with Mathematics and Physics (full A levels preferred).	Nil.
Bachelor of Fine Arts conjoins	Rank score of 210.	Portfolio. An interview may be required.
Bachelor of Health Sciences conjoins	Rank score of 210 with one subject from Table A and one subject from Table B*.	Nil * <i>From 2011, A level in one subject from Table B preferred.</i>
Bachelor of Laws (Part I) conjoins	Admission will be based on the conjoint score for the other degree.	Students will be selected into Part II on the basis of their results in Part I.
Bachelor of Music conjoins	Admission will be based on the conjoint score for the other degree.	An audition is required for applicants taking the major in Jazz, Performance and Popular Music.

Bachelor of Nursing conjoints	Rank score of 210 with one subject from Table A and one of Biology, Chemistry, Physics.	Nil.
Bachelor of Property conjoints	Rank score of 210 with three subjects from Table A and/or Table B.	Nil.
Bachelor of Science conjoints	Rank score of 240.	Nil.
Bachelor of Theology conjoints	Rank score of 210.	Nil.

The University of Auckland may update this information throughout the year.

Subject Requirements for Careers

The information on the following pages is not intended to be comprehensive but merely gives an outline of some Polytechnic and University courses, the likely pre-requisite school subjects, and **present** course entry requirements. It is a guide to help in the selection of appropriate subjects, in order that career opportunities and choices are not limited.

*Students are encouraged to use the **links** to all the Universities and Polytechnic websites for more detail.*

Every attempt has been made to ensure the information is correct. It is very important to check current entry requirements and pre-requisites from the websites, University Calendar, Student Guide or prospectus of the particular Tertiary Institution.

Key for Subject Requirements

ACC	Accounting	GRA	Graphics
ARH	Art History	HIS	History
ART	Art	MAT	Maths
BIO	Biology	MUS	Music
CHE	Chemistry	PHY	Physics
CLS	Classical Studies	NCEA	National Certificate of Educational Achievement
COMP ST	Computer Studies	CIE	Cambridge International Examination
ECO	Economics	CES	Common Entry Standard
ENG	English		
LAN	Foreign Language		
GEO	Geography		

Career Area	Qualification	Subjects	Minimum Entry
Agriculture	Diploma	AS BIO, ENG, MAT, CHE/PHY desirable	
	Degree	A/AS BIO, MAT, PHY, CHE	CES
Air Traffic Control	Licence Airways Corp. of NZ	A/AS ENG, MAT Keyboard skills useful	CES, age 19.5 years ENG, MAT, PHY
Aviation (i) Air Force	Officer	A/AS Maths(60%), PHY	
	Pilot/Navigator	PHY,CHEM or COMP ST, ENG	Maths, Science pref. Physics
	Cert. Aeronautical Eng. Air NZ	AS ENG. MATHS SCI-pref PHY	Good grades. Pre-enrolment assessment
(ii) Massey	Degree Massey B.Aviation	A/AS PHY, MATHS	Pre-selection exam.
(iii) Flying Academy and School		AS MAT, PHY	
Architecture	Degree	ART & MATHS highly recommended. COMP ST & GRAPHICS useful.	CES, Auck direct entry good grades, very competitive. Interview, Art portfolio, 1 Table A Humanities subject
		A2 Maths or PHY, ARH, Art recommended.	Victoria Int year, competitive entry to Year 2 - no portfolio Unitec - Portfolio & CES
Architectural Technology	Diploma	AS MAT, PHY, ENG pref.	Good grades, AS
Architectural Draughting	NZ Certificate	AS MAT, PHY Graphics or Design	MAT, PHY AS
Commerce/Business	NZ DipBus	IGCSE ENG, MAT	
	Degree	A/AS MATH ENG, ACC, ECO, very desirable, not compulsory. MATH if majoring in ECO or Finance	CES Some Univ. limited entry NB: Specialist Comm degrees at Lincoln
Computing/Information Technology	Certificate	AS MAT, COM	Good AS grades
	Degree	MAC or MAS	CES, Limited entry for some universities
Construction Economics (Quantity Surveying)	Diploma	MAT, ECO, COMP ST	AS Good Marks.
	Degree		CES MATHS essential. ECO. PHY. & COMP ST recommended.
Dentistry	Degree		See Health Science Intermediate Otago

Career Area	Qualification	Subjects	Minimum Entry
Design	Degree 4 yrs	ART Useful ENG, HIS, MAT, PHY, ARH, Computer Skills	CES, Portfolio required, competitive entry, Massey, AUT, Unitec Vic. Uni open entry, no portfolio, competitive to Yr2
Engineering	Diploma	AS MAT, PHY, SC, GRA desirable	AS MAT & PHY
	AUT Degree	A/AS MAC, PHY,	A/AS CES MATH and Physics
	Degree	MAC & PHY. CHE for some programmes. ENG. & MAS. recommended	CES, Auckland limited entry. Canterbury open entry MAC. & PHY. Full A level preferred.
Fine Arts	Diploma	Polytechnics: AS in ENG & ART	Portfolio required
	Degree	ART, ARH	CES, Canterbury: Good passes in 2 ART Year 13 subjects & portfolio Portfolio and written appln required Auckland. - Competitive entry, check subjects
Food Science Human Nutrition	Degree	CHEM, BIO	CES, Degrees at AUT, Massey, Otago, Auckland
Forestry	Degree	BIO, CHE, MAS, ECO & ENG useful	CES
Health Science (Medicine)	Medicine, Dentistry, Pharmacy, Med Lab Science, Physiotherapy	BIO, CHEM. Essential. ENG. PHY. & MATHS to minimum AS level.	Auckland Medical School: either Year I B.Health SC or B.Biomed SC: See University Auckland website for subjects - 1 from Table A Humanities required. Otago Med School: Health Science Intermediate - compulsory BIO, CHE, PHY, MAS & ENG - competitive 2nd year entry for Auckland and Otago.

Career Area	Qualification	Subjects	Minimum Entry
Horticulture	B.Ag.Sc/HortSc	BIO, CHE, MAT	CES
	BComm Farm Management Horticulture	BIO, MAT ACC & ECO desirable	CES
Journalism	Diploma Degree B. Communication Studies.	ENG + broad general Ed Media Studies Recmnd.	CES, Canterbury University postgrad diploma, Degree Required. Degree-competitive entry.
Languages	Degree	ENG, LAN	CES
Landscape Architecture	Diploma	MAT, DES, BIO, GEO recommended	Unitec: AS.
	Degree		CES, Portfolio for Unitec. Open entry Yr1 Vic. & Lincoln-no portfolio.
Law	Degree	General Education, ENG. & Humanities subjects	Very competitive entry to second year. Limited entry to Auckland and Waikato Universities Year 1.
Med Lab.Science	Degree	BIO, CHE, ENG, MAT, PHY	CES, Int year at Otago
Media Studies	Certificate	AS ENG	Good grade in ENG. Work experience desirable.
	B.Communication, AUT, Unitec, Waikato and Massey		CES and written application, Competitive entry, high grades for AUT.
Medical Radiation Technology	Degree	A/AS ENG, MATHS and 1 Science subject	CES and selection criteria
Music	Degree	MUS to at least AS, preferably A2	CES, audition for performance-check early dates.
Nursing	Degree programme at Polytechnics and Univ. of Auck.	Uni of Auck. BIO, CHEM. or PHY. plus one Table A subject	Limited entry programme. Check requirements.
Optometry	Degree	CHE, BIO, PHY	CES Auckland int. year, competitive entry.

Career Area	Qualification	Subjects	Minimum Entry
Pharmacy	Degree	MAT, CHEM, BIO essential, PHY, ENG recommended. MAT, PHY, CHE, BIO, ENG	CES Auck. competitive direct entry and interview. Bio & Chem. Full A levels preferred. Otago Health Science Int. Yr1 course.
Physical Education	Degree	BIO, ENG, Maths, PE& CHE helpful	Admission competitive - Otago. Excellent A/AS and CES
Physiotherapy - Auckland and Otago	Degree	ENG, BIO, CHE, PHY, MATH	CES Otago HSc. Int. AUT - no prescribed subjects. Competitive entry CES. CIE 180 points: Full A levels preferred.
Sport and Recreation Sport and Exercise Science	Degree	General Education, BIO and GEO, recommended.	CES
Science	Certificate	AS BIO CHE MAT PHY	
	Degree	MAT, BIO, PHY, CHE	CES, Limited entry Auckland for some courses
Speech & Language Therapy	Degree, Postgrad Auckland.	Science to at least AS BIO recommended.	CES, competitive entry to second year, Cant. and Massey, Post-grad. Auck.
Social Work	Degree	General Education	CES, competitive entry to second year
Surveying	Diploma	AS MAT, PHY & Graphics	
	Degree	Eng, Maths, Computer St. & GEO Useful	CES, Int year at Otago
Teaching	Gen. Education	Primary: CES & some required subjects	
		Secondary: 4 year degree or Post Grad Dip.	
Technology	Degree	CHE, MAT, PHY, BIO recommended	CES-Univ. Auck. Limited entry programmes.
Veterinary Science	Degree	BIO, CHE, MAT, PHY, ENG	CES, Vet Sci Intermediate B+ to A- Grades in Massey semester 1, competitive
Visual Communication	Diploma, Degree	ENG, ART	Very competitive. Portfolio Required.

