



St Peter's College

Career Pathways Guide 2022

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University Entrance

To gain entrance to university students need to achieve at least University Entrance, also known as UE

UE for NCEA

NCEA	Numeracy	10 credits from Level 1 Mathematics or higher from specified achievement standards or 3 specific numeracy unit standards
	Literacy	10 credits at Level 2 or above , made up of: <ul style="list-style-type: none"> 5 credits in reading 5 credits in writing - from specific achievement standards
	Level 3	Achievement of NCEA Level 3: minimum of 60 credits at level 3 or higher and 20 credits at level 2 or higher. Students must gain 14 credits from each of 3 approved subjects . Plus, Level 1 Literacy and Numeracy

UE for CIE

CIE	Numeracy	D grade or better in IGCSE Mathematics (or higher)
	Literacy	E grade or better in AS English
	AS or A-level	UCAS tariff of 120 points, including a minimum of a D grade in at least 3 subjects deemed equivalent to those in the list of approved subjects.

Calculating UCAS:

Grade	AS points	A-level points
A*		140
A	60	120
B	50	100
C	40	80
D	30	60
E	20	40

* **Approved subjects:** Accounting, Agriculture & Horticulture, Biology, Business Studies, Calculus, Chemistry, Chinese, Classical Studies, Construction and Mechanical Technologies, Cook Islands Maori, Dance, Design (Practical Art), Design and Visual Communication, Digital Technologies, Drama, Earth and Space Science, Economics, Education for Sustainability, English, French, Geography, German, Health Education, History, History of Art, Home Economics, Indonesian, Japanese, Korean, Latin, Mathematics, Media Studies, Music Studies, Painting (Practical Art), Photography (Practical Art), Physical Education, Physics, Printmaking (Practical Art), Processing Technologies, Religious Studies, Samoan, Science, Sculpture (Practical Art), Spanish, Social Studies, Statistics, Technology, Te Reo Maori, Te Reo Rangatira, Tongan

Ranking Systems and Limited Entry Tertiary Courses

Information updated: March 2021

This information is updated by tertiary institutions on a regular basis. For the most current information please check University websites or prospectuses.

Limited Entry Courses

Courses which require higher entry criteria than University Entrance. Some courses have prerequisite subject requirements.

Ranking Systems

Systems used by some New Zealand Universities for ranking students in order to select into tertiary courses.

University of Auckland

- To be admitted to the University of Auckland, you must gain their University Entrance Standard and be selected into a programme
- **The English Language requirement for all degree courses is 17 Credits in English at Level 2 or 3 for NCEA and a minimum of a D grade in AS or A Level English**
- Some degree programmes require **specific subjects** to have been taken at Secondary School and a minimum number of credits. See pages 12-17 for range of course requirements.
- Some programmes have additional requirements such as a portfolio, audition and/or interview

Ranking System at University of Auckland

NCEA: rank score is based on best 80 credits at Level 3 or higher, over a maximum of 5 approved subjects, weighted by the level of attainment achieved. The maximum rank score is 320.

Level of Attainment	Points
Excellence	4
Merit	3
Achieved	2

CIE: rank score is based on the UCAS tariff score total, accumulated over a maximum of 6 subject units, in subjects at AS or A-level from subjects that match those of Approved NCEA subjects. One A-level subject counts as two subject units, where one AS Level is one unit. The maximum rank score is 420.

Level	Grade A*	Grade A	Grade B	Grade C	Grade D	Grade E
A	140 points	120 points	100 points	80 points	60 points	40 points
AS		60 points	50 points	40 points	30 points	20 points

Examples of Rank scores and subject requirements for guaranteed admission at Auckland University (as at March 2021):

Degree	NCEA	CIE
Architectural Studies	230 Students who meet UE will be selected on academic performance, written statement and portfolio	280 Students who meet UE will be selected on academic performance, written statement and portfolio
Arts	150	150
Commerce	180	190
Education	150 Interview and referees reports required + Police check	150 Interview and referees reports required + Police check
Engineering	260 17 external Level 3 in Calculus and 16 external Level 3 Credits in Physics	310 with Mathematics and Physics at A Level
Health Sciences	250 with minimum of 18 credits in one of English, Geography, History, Classical Studies and minimum of 18 credits in one of Biology, Chemistry or Physics.	300 with one of English, Geography, History, Classical Studies and one of Biology, Chemistry or Physics.
Music	150 Plus qualitative statement of musical background, music certificates, referees' report. Audition for Classical, Jazz Performance and Popular Music majors. Portfolio of compositions for composition major	150 Plus qualitative statement of musical background, music certificates, referees' report. Audition for Classical, Jazz Performance or Popular Music majors. Portfolio of compositions for composition major
Nursing	230 with minimum of 18 credits in one of English, Geography, History, Classical Studies, Te Reo Maori, Art History and minimum of 18 credits in one of Biology, Chemistry or Physics.	280 with one of English, Geography, History, Classical Studies and one of Biology, Chemistry or Physics.
(Urban) Planning	180	190
Property	180	190
Science: Food Nutrition Biomedical Sci Other majors	200 280 165	200 310 170
Social Work	150 + interview, referees' reports + Police check	150 + interview, referees' reports + Police check
Sport, Health & Physical Education	150	150
Conjoints	210-275 (depending on degrees)	230-330 (depending on degrees)
Law	At part 1, students must apply for a conjoint	degree or concurrent degree.

Ranking system at Victoria University

School leavers who attain University Entrance and the required guaranteed entry score will be accepted for Victoria University.

Guaranteed Entry score	NCEA	CIE
All degrees except BAS and BBS	150	160
BAS and BBS	180	170

BAS = Bachelor of Architecture. BBS = Bachelor of Building Science.

Ranking system at Massey University

A rank score admissions scheme is used at Massey University. Preference will be given to students who achieve a rank score of 140 points (NCEA students) and 140 points (CIE) and meet University Entrance plus specific requirements for each course.

Ranking system at Otago University

There are two pathways for admission to programmes at Otago University, known as preferential entry and competitive entry. Preferential entry guarantees high-calibre students a place at Otago, subject to gaining University Entrance.

Preferential Entry criteria - students who fulfil any one of the criteria below:

- NCEA Level 2 or 3 endorsed with merit or excellence
 - Rank score of 140 points from NCEA Level 3 or Cambridge AS or A levels
 - Acceptance into Halls of Residence
 - Award of University of Otago scholarship
 - Maori or Pacific applicant (Polynesian or Melanesian descent) who gains University Entrance
 - International student meeting minimum university entrance
-

Competitive Entry: process for students who do not gain preferential entry. Students will be assessed on academic performance and other relevant criteria.

NB. Selective entry programmes have specific entry requirements (Oral Health, Dental Technology, Radiation Therapy, Primary/Early Childhood Education – see web site)

Examples of Ranked Score Calculations

CIE student

Subject	Level	Subject units	Grade	Tariff points	Rank score
Mathematics	A	2	B	100	100
Physics	A	2	C	80	80
English	AS	1	A	60	60
Geography	AS	1	C	40	40
Biology	AS	1	D	30	Does not count
					Total: 280

Biology does not count because ranked score only includes best 6 subject units.

NCEA student

Subject	Results	Calculate	Rank score
English	6E, 6M, 9A	$(6 \times 4) + (6 \times 3) + (9 \times 2)$	60
History	8E, 9A	$(8 \times 4) + (9 \times 2)$	50
Physics	20M	(20×3)	60
Maths with Calculus	4E, 3M, 8A	$(4 \times 4) + (3 \times 3) + (8 \times 2)$	41
Economics	7M, 10A*	(7×3) (*10A not counted)	21
	Total 90 credits		Total: 232

*10 'Achieved' credits of Economics do not count as only take best 80 credits over five subjects

Useful Websites

To assist with Subject Selection:

Otago University: Recommended background subjects https://www.otago.ac.nz/future-students/otago654586.pdf
Canterbury University: Best preparation from school https://www.canterbury.ac.nz/support/get-support/year-11-12/
Victoria University: Planning ahead – choosing your subjects http://www.victoria.ac.nz/study/course-planning/school-subjects/planning-ahead.pdf
Exploring pathways and study options http://www.schoolconnect.co.nz
Career Services website www.careers.govt.nz
University of Auckland – Subject Guide https://cdn.auckland.ac.nz/assets/auckland/study/programmes-and-courses/undergraduate-study-options/information-for-careers-advisers/Subject%20Guide%202021%20WEB.pdf

University and Polytechnic Websites:

University of Auckland	www.auckland.ac.nz
AUT University	www.aut.ac.nz
Manukau Institute of Technology	www.manukau.ac.nz
Massey University	www.massey.ac.nz
Unitec	www.unitec.ac.nz
Lincoln University	www.lincoln.ac.nz
University of Canterbury	www.canterbury.ac.nz
University of Otago	www.otago.ac.nz
University of Waikato	www.waikato.ac.nz
Victoria University	www.victoria.ac.nz
Help with choosing degree majors	www.nomajordrama.co.nz

Apprenticeships

Modern Apprenticeships [http: www.careers.govt.nz/education-and-training/workplace-training-and-apprenticeships/new-zealand-apprenticeships](http://www.careers.govt.nz/education-and-training/workplace-training-and-apprenticeships/new-zealand-apprenticeships)

Building www.bcito.org.nz

Electrical www.etco.co.nz

Industry-specific websites

NZ Skills Connect www.nzskillsconnect.co.nz
(Connecting people to careers in Aviation, Hospitality and Tourism)

Dairy Industry Careers getahead
(Farming, Agribusiness)

Nursing in NZ www.moh.govt.nz/nursing

Retail Careers www.rwr.co.nz/for-candidates/career-map/

Air NZ Aircraft Maintenance <http://www.aviationinstitute.co.nz/ai/>

Forces

Airforce, Army, Navy www.defencecareers.mil.nz

Police www.newcops.co.nz

Other useful websites

Information on planning financial future www.moneyhub.co.nz

Student loans and allowances www.studylink.govt.nz

Approved NZQA courses:
<http://www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/approved-subjects/>

Tertiary study in USA www.fulbright.org.nz

Selecting School Subjects

When you are selecting subjects, it is important to **keep your options open** for future career opportunities. Many tertiary courses have prerequisite subjects and specific entry requirements, and it is important that you are aware of this, when making subject choices.

As you make decisions about which subjects to take, consider the following:

- What subjects do you really enjoy?
- What is your current ability in each subject you are studying?
- Avoid selecting subjects just because your friends are taking them or you like the teacher
- Consider what you want to do in the future and check out the entry requirements and recommended subjects for future tertiary courses and apprenticeships (Pages 11 to 17)
- Talk to teachers and senior students to find out more information about the content of subjects
- Get further help by talking to staff in the Careers department or Deputy Principal (Curriculum)
- Think carefully before dropping core subjects like Mathematics, English and the Sciences, as this could limit future career choices
- Remember that some subjects cannot be picked up later and must be studied sequentially (e.g. languages).

$$\text{Subject Choice} = \text{Ability} + \text{Interest} + \text{Occupation}$$

Ability	Interests	Occupation
Assess your current ability: <ul style="list-style-type: none"> • School reports • Assessment results • Discuss with teachers and parents 	What subjects do you enjoy? Avoid doing subjects just because your friends are Do you like the content of the subject or the teacher? Talk to teachers and senior students to find out more information about subject content Think about your learning style – do you like writing, solving problems, practical work, creative work?	Think about what you want to do in the future Research occupations: www.careercentral.school.nz www.schoolconnect.co.nz Which subjects will you need? Check University websites for required subjects and entry requirements Book appointment with Careers staff www.careercentral.school.nz

SUBJECT CHOICE GUIDE

School Subjects and Entry Requirements for Career pathways

The summary on the following pages provides a brief outline of some career pathways beyond school, recommended subjects and current requirements for entry to tertiary courses or apprenticeships (updated June 2021). It is intended to assist students when selecting school subjects so that future career choices remain open.

Important:

- Entry into many courses is dependent on grades/level of achievement as well as subject choice
- There are numerous occupations not on this list. You are advised to visit the Careers Centre to obtain specific details
- You should also check current entry requirements and pre-requisites from the websites and prospectuses of the tertiary institution you are interested in
- The minimum entry listed in the table below refers to the minimum academic requirements that need to be achieved in order to be considered for entry to the course. Meeting these minimum entry requirements does not guarantee a place on the course
- For minimum entry standards, we have tried to list both NCEA and Cambridge requirements. In cases where CIE standards are not listed, please see the Careers Department
- For University Entrance (UE) criteria (including numeracy and literacy) for Cambridge and NCEA pathways, see separate section on University Entrance on page 2.

SUBJECT CHOICE GUIDE

GUIDE ONLY! PLEASE CHECK INDIVIDUAL COURSE REQUIREMENTS

Career	Qualification	Recommended subjects	Minimum entry
Agriculture	Diploma	Level 2 or AS Chemistry, Mathematics, English, Biology, Physics	40 credits at Level 2 over 4 subjects + numeracy and literacy
	Degree	Level 3 or AS Chemistry, Mathematics, Biology, Physics	UE
Apprenticeships (many including building, plumbing, electrical)	National Certificate	Mathematics, English, General Science, Carpentry, Furniture-making, Graphics Physics Level 2 for Electrical	Level 2 Mathematics, English, Physics required for electrical apprenticeship Pre-apprenticeship courses: 4 years at Secondary School + 12 credits at Level 1 in each of 2 subjects.
Architecture	Masters degree (total 5 years)	Highly recommended: Level 3 Visual Arts subjects, Maths, English Level 3 or CIE Mathematics, English (or other English-rich subject), Physics, Art & Design, Graphics	<u>Auckland Uni</u> : 230 rank score NCEA, 280 UCAS, Portfolio, written statement <u>UNITEC</u> : UE + portfolio, maybe interview <u>Victoria</u> : 170 UCAS (CIE) or 180 rank score (NCEA) + UE. Entry after intermediate year (no portfolio)
Architectural Technology	Diploma	Level 2 or AS Mathematics, Physics, English, Graphics, Design	<u>UNITEC</u> : Min 60 credits at Level 2, 8 Level 2 English credits and 12 Maths Credits
Automotive Engineering (Mechanic)	Certificate	Level 1 English, Mathematics	<u>UNITEC</u> : 16 years old with 8 credits in Level 1 English + 10 credits in Level 1 Mathematics
Aviation (1) Airforce	Pilot/Navigator	English, Mathematics and Science subjects (preferably Physics)	Min 18 credits in Level 2 English, Maths and Science subjects (pref. Physics). Eyesight restrictions
(2) Massey	B Aviation	Level 3/ AS Level Physics, Mathematics, English	UE. Preferential entry 140 NCEA and CIE. Language rich subject at 14 credits or Grade C at A/ AS level. Physics and Calculus strongly recommended. Plus online aptitude test, selection interview + additional requirements
(3) Flying school	Pilot Training	Level 2/ AS Level Physics, Mathematics, English	<u>Southern Wings</u> : Pre-selection process. 18 years of age. 14 credits in Level 3 language rich subject, 14 credits in Mathematics
(4) Air New Zealand Certificate in Aeronautical Engineering	National Certificate	Year 12/AS English, Mathematics and Science subject (pref. Physics)	Pre-enrolment assessment. NCEA Level 2 or equivalent in Mathematics, Physics, English, plus Technology
Business/ Commerce	Degree – available at most universities	Level 3/AS Mathematics.	UE <u>Auckland Uni</u> : Rank score: 180 (NCEA) or 190 (CIE)

		Accounting, Economics recommended. Calculus if majoring in Economics or Finance	AUT: UE
Computing/IT	Degree – available at most universities (often found under Science Faculties)	AS Mathematics or Level 3 Mathematics with Calculus. Statistics, Physics, Economics, English	<u>AUT</u> : UE and guaranteed entry with a rank score of 120 + one of Calculus, Maths or Stats
Construction Management/Quantity Surveying	Degree	Level 3/AS Mathematics. Economics, Physics recommended	<u>UNITEC</u> : UE and 12 credits in Level 2 Mathematics <u>MASSEY</u> : UE. Preferential entry 140 NCEA and CIE. Strongly recommend Maths subject
	Diploma	Level 2 Mathematics, Economics	<u>UNITEC</u> : 60+ credits at Level 2 and 8 credits in Level 2 English and 12 credits in Maths
Dentistry	Degree (Otago)	AS Level/ Level 3 Biology, Chemistry, English, Mathematics, Physics	<u>Otago</u> : UE + ranking system, then entry after Health Sciences First Year (HSFY)
Design	Degree	Level 3 Art Subjects. English, Graphics useful.	UE. Art portfolio (and interview at some universities including AUT and UNITEC)
Engineering	Degree (4 years)	A level or Level 3 Physics. A level Mathematics or Level 3 Mathematics with Calculus. A Level or Level 3 Chemistry required for some programmes.	<u>Auckland</u> : UE. Rank score 310 (CIE) or 260 (NCEA). CIE: full A levels for Maths and Physics NCEA: 17 external credits in Level 3 Calculus, 16 external credits Level 3 Physics <u>Canterbury</u> : Intermediate year then entry limited onto 2 nd year Suggested: UE, 18 credits recommended for Level 3 Calculus, Physics. 18 credits in Level 3 Chemistry. NB. Chemistry not needed for Computing, Electrical, Mechanical, Software disciplines. <u>Massey</u> : UE. Preferential entry 140 (NCEA/CIE). 16 credits in Level 3 Physics and Calculus. C grade in A Level Physics and Mathematics. For Chemical Engineering – 14 credits or Grade C - A Level in Chemistry. <u>AUT</u> : Guaranteed entry 250 Rank Score including 14 Level 3 Calculus, Physics/ equivalent in CIE. All other applicants considered on a case-by-case basis.
Fine Arts	Degree	Level 3 Visual Arts subjects	UE <u>Auckland</u> : Rank Score 150 (CIE/NCEA), Portfolio, interview, written application. <u>Canterbury</u> : UE Intermediate first year. Portfolio, application form + strong marks

			in one or more Practical Art subjects plus two non-Art subjects
Food Science, Nutrition	Degree	AS or Level 3 Biology, Chemistry, Mathematics, English, Physics	UE <u>Auckland</u> : rank score 200 (NCEA), 200 (CIE)
Food Technology	Massey (4 years)	A Level or Level 3 Chemistry, Biology, Physics, Calculus	<u>Massey</u> : UE. Preferred entry 140 (NCEA/CIE). 16 Level 3 credits in Calculus, Physics + 14 credits Chemistry or C grade in A Level Physics, Mathematics and Chemistry.
Hospitality	Degree	AS or Level 3 English, Mathematics, Commerce subjects	<u>AUT</u> : UE + interview. Work experience recommended.
Journalism, Communications	Degree	AS or Level 3 English, History	<u>AUT</u> : Places limited and selected on level of academic achievement. Interview maybe required. UE Rank score 180. 14 credits in 2 subjects from an English rich subject. CIE: 150 over no more than 5 subjects, C grade at AS level in English-rich subject.
Law	Degree (4 years)	AS or Level 3 English, Classics, History, Economics, Languages	<u>Auckland</u> : UE. Required entry into another degree course then competitive entry after 1 st yr <u>AUT</u> : UE. Guaranteed entry – Rank score 180 + 2 language rich subjects. All other applicants considered on case-by-case basis. Need a B grade average in 1 st year to progress. <u>Waikato</u> : No competitive entry after 1 st year. NCEA Excellence or Merit with at least 18 credits in a language rich subject. Personal statement required. <u>Otago</u> : UE + ranking system, then restricted entry after first year
Medical Laboratory Science	Degree (4 years) at AUT, Otago, Massey	Level 3 Mathematics with Statistics or AS Mathematics. Level 3 or AS Biology, Chemistry, English, Physics	<u>AUT</u> : UE NCEA: 14 credits in Level 3 Maths with Statistics, Biology, Chemistry; CIE: AS Math with Statistics, Biology, Chemistry + police check <u>Massey</u> : UE. Preferential entry 140 (NCEA/CIE). Chemistry strongly recommended, plus Biology, Statistics/calculus <u>Otago</u> : UE + ranking system for entry into Health Science First Year. Entry into degree dependent on marks in 1 st yr
Medical radiation therapy (Otago University @Wellington)	Degree	AS or Level 3 English, Mathematics, Biology, Physics	UE + completion of suitable subjects (see recommended subjects). Interview. Initial selection from Year 12 results

Medicine	Degree (6 years); entry after 1 st year	AS or Level 3 Biology, Chemistry, Physics, Mathematics, English	<p><u>Auckland:</u> UE. Intermediate year of either BSc (BioMedSci) or BHSc. Entry into medicine dependent on 1st year marks, UCAT + interview. NCEA: rank score of 250</p> <p>CIE: BHSc requires rank score of 300</p> <p>BSc (BioMedSci): rank score of 280 (NCEA) or 310(CIE)</p> <p><u>Otago:</u> UE + ranking system into Health Sciences First Year. Entry into Medicine dependent on 1styr marks + UCAT.</p>
Nursing	Degree	As or Level 3 Biology, Chemistry, Physics, Mathematics and English	Students will be selected based on their rank score and one of Biology, Chemistry or Physics at NCEA Level 3 or equivalent. Cambridge International students will be selected based on their rank score, and one of Biology, Chemistry or Physics at full A Level.
Music	Degree	Music Grade 5 theory recommended	<p>UE + audition for performance majors. Statement of musical background and experience.</p> <p><u>Auckland:</u> rank scores for Composition and History/Literature of Music are 150 (NCEA) and 150 (CIE).</p>
Optometry	Degree (5 years)	AS or Level 3 Chemistry, Biology, Physics, Mathematics	<u>Auckland:</u> UE + limited entry into BSc (Biomed Sci) with rank score of 280(NCEA) or 310 (CIE), then competitive entry into optometry after 1 st yr.
Pharmacy	Degree (4 years + 1 yr internship)	AS or Level 3 Biology, Chemistry, Physics, Mathematics, English Full A levels in Biology and Chemistry preferred.	<p><u>Auckland:</u> UE. Intermediate year of either BSc (BioMedSci) or BHSc. Both limited entry into 1st year. NCEA: rank score of 250 CIE: BHSc requires rank score of 300</p> <p>BSc (BioMedSci): rank score of 280 (NCEA) or 310(CIE)</p> <p><u>Otago:</u> UE + ranking system for entry into Health Sciences first yr (HSFY). Entry into degree dependent on marks in HSFY.</p>
Physical Education	Degree (4 years) Otago	Biology, English, Academic PE highly recommended.	<u>Otago:</u> UE + ranking system initial selection from Year 12 results
Physiotherapy	Degree (4 years)	AS or Level 3 Biology, Chemistry, Physics, English, Mathematics	<p><u>AUT:</u> First semester BHsc and then upon application</p> <p><u>Otago:</u> UE + ranking system for entry into Health sciences first year. Entry into degree dependent on marks in HSFY.</p>

(Urban) Planning	Degree	Level 3 or AS Geography, Economics useful	UE. <u>Auckland:</u> Rank score 190 for NCEA and 190 for CIE.
Police		Level 2 English, Mathematics	Academic and physical tests, swimming test, first aid and defensive driving certificates.
Science	Degree	AS or Level 3 Biology, Chemistry, Physics, Mathematics, Geography	UE. <u>Auckland:</u> rank score of 165-280 (NCEA) or 170-310 (CIE), depending on major.
Social Work	Degree	English, Classics, History, Geography, Economics, Mathematics with Statistics	UE <u>Auckland:</u> rank score 150 (NCEA), 150 (CIE), Interview + referees reports + Police check. <u>Massey:</u> Preferential entry 140 (NCEA/CIE), plus essay, Police Check + Interview.
Sport and Recreation Sports Science	Degree	Biology, English, Geography, Physical Education	UE <u>Auckland:</u> (Sport, Health and Physical Ed): Rank score of 150 (NCEA), 150 (CIE) <u>AUT:</u> preference given to those with one subject from a language rich subject and either PE or Science/Maths
Surveying (land)	Degree, 4 years	Level 3 Statistics, Calculus or AS Maths. Physics, Geography, English	<u>Otago:</u> UE + ranking system, then competitive entry after 1 st yr
Teaching	Degree	AS or Level 3 approved subjects	UE + interview, references, <u>Auckland:</u> rank scores of 150 (NCEA) and 150 (CIE) (Note: for secondary teaching, do undergraduate degree then Graduate Diploma of Teaching or 4-year teaching degree) AUT: UE (Early Childhood/ Primary)
Veterinary Science	Degree – 5 years	AS or Level 3 Biology, Chemistry, Maths, Physics, English	<u>Massey:</u> UE. Preferential entry 140 (NCEA/CIE) for entry to semester 1, then competitive entry after 1 st semester at Massey. Should have Level 3 Biology, Chemistry and Physics or equivalent, plus Calculus or Statistics (preferred)