Compassvale Secondary School
Information Booklet for 2022 Secondary 3 Subject Combinations

This information booklet aims to help Sec 2 students make informed decisions in their subject choices for upper secondary and work towards the subjects they wish to study. It contains the following information:

1. Upper Secondary Subject Combinations
a) Possible Subject Combinations
b) Subject Demands
c) Subject Synopses
2. Post-Secondary Education
a) The GCE 'A' Level Curriculum
b) Entry Criteria for Junior Colleges, Millennia Institute, Polytechnics and Institutes of Technical Education
c) Direct School Admission – Junior College (DSA-JC)
d) Polytechnic Early Admissions Exercise (Poly EAE)
e) Polytechnic Foundation Programme (PFP)
f) Direct-Entry-Scheme to Polytechnic Programme (DPP)
g) ITE Early Admissions Exercise (ITE EAE)
h) Additional information on post-secondary pathways and prospectus

Offer of Subject Combinations

1. In offering the various subject combinations, the school aims to:
   - enable students to progress to next higher level of learning (e.g. JC, CI, polytechnics, ITE);
   - optimise choices and flexibility as far as possible for all students;
   - cater to students with different interests and abilities;

2. The subject combinations listed on page 2 are **tentative**. **The actual subject combinations or subjects offered will depend on demand as each cohort of students is different** (ie. number of students who choose the subject combination/subjects) **and feasibility in offering it** (e.g. availability of teaching resources, viable class sizes, timetable constraints) **changes from year to year**. Where possible, an update is provided before students' selection of subject combinations at year end.

Choosing Subject Combinations

1. Students can and **should** choose up to 12 (for Express students), 6 (for N(A) students, 2 (for N(T) students) options, **in order of preference**. While the school will try to allocate students their preferred options, students should be mentally prepared that some may not be given their first few choices. Students **should exercise all their options** and choose carefully based on:
   - Relevance for preferred post-secondary educational pathways
   - Interests and abilities in the various subjects
   - Demands of the various subjects (difficulty level, coursework etc)
   - Demands of the subject combinations (ability to cope among other commitments such as CCA etc)
2. After reviewing their Personal Education Career (PEC) plan with their form teachers, students will participate in a mid-year student interest survey after receiving their first semestral results. Their choices in the survey bear no consequences on their final choices at the end of the year.
3. Students are strongly encouraged to seek advice from teachers and discuss options with their parents.
4. Students will be asked to exercise their options at the **Subject Combination Options Exercise** at the end of Term 4 after the overall year-end results are known.

Allocation of Subject Combinations

1. Allocation of subject combinations will be based on:
   - Academic merit (overall year-end results in Sec 2, weighted based on subjects in chosen combination)
   - Student's choice of subject combinations
   - Take-up rate and vacancies in that subject combination or subject
2. Students who fail to submit their options **by the given deadline** or fail to secure any of their options will be allocated a subject combination at the discretion of the school.

Schedule of Activities

S/No	Activity	Date/Time
1	Briefing for students on subject information and Education & Career Guidance (ECG) sharing	24 May 2021
2	PEC plan review & mid-year student interest survey	24 May 2021
3	ECG & Subject Information for Parents via PG	28 May 2021
4	Briefing for students (option exercise)	Term 4 Week 6
5	Closing date for online submission of subject combinations option	1 November 2021, 12 noon
6	Release of outcome of subject combination allocation	10 November 2021, 12 noon
7	Closing date for appeals for change of subject combination	17 November 2021, 12 noon
8	Release of outcome for appeals	24 November 2021, 12 noon

1. UPPER SECONDARY SUBJECT COMBINATIONS

1a) Possible Subject Combinations

The subject combinations listed here are **tentative**. Students can use the list during the mid-year survey to consider the subjects they wish to pursue at Upper Secondary.

Students should note that **the list does NOT represent the final subject combinations available for 2022. The actual subject combinations or subjects offered will depend on demand as each cohort of students is different** (ie. number of students who choose the subject combination/subjects) **and feasibility in offering it** (e.g. availability of teaching resources, viable class sizes, timetable constraints) **changes from year to year**. Where possible, an update is provided before students' selection of subject combinations at year end.

Express Course

No of Subj	6	6	6	6	6	6	6	6	6	6	6	6
Code	**A1**	**A2**	**G1**	**G2**	**H1**	**H2**	**R1**	**R2**	**D1**	**D2**	**F1**	**F2**
Subjects	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL
	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT
	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math
	A Math	A Math	Geog	Geog	Hist	Hist	Art	Art	D&T	D&T	NFS	NFS
Science	Sci(P/C)		Sci(P/C)		Sci(P/C)		Sci(P/C)		Sci(P/C)		Sci(P/C)	
		Sci(C/B)		Sci(C/B)		Sci(C/B)		Sci(C/B)		Sci(C/B)		Sci(C/B)
Humanities (Choose One)	SS+Geog	SS+Geog			SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog
	SS+Hist	SS+Hist	SS+Hist	SS+Hist			SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist
	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit

No of Subj	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8
Code	**BY1**	**ES1**	**GE1**	**GE2**	**HI1**	**HI2**	**AR1**	**AR2**	**DT1**	**DT2**	**FN1**	**FN2**	**DS**	**TS**	**DSG**	**DSH**
Subjects	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL	EL
	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT
	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math	Math
	A Math	A Math	A Math	A Math	A Math	A Math	A Math	A Math	A Math	A Math	A Math	A Math	A Math	A Math	A Math	A Math
													Phy	Phy	Phy	Phy
	Bio	Electronics	Geog	Geog	Hist	Hist	Art	Art	D&T	D&T	NFS	NFS	Chem	Chem	Chem	Chem
														Bio	Geog	Hist
Science	Sci(P/C)	Sci(P/C)	Sci(P/C)		Sci(P/C)		Sci(P/C)		Sci(P/C)		Sci(P/C)					
				Sci(C/B)		Sci(C/B)		Sci(C/B)		Sci(C/B)		Sci(C/B)				
Humanities (Choose One)	SS+Geog	SS+Geog			SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog		SS+Geog
	SS+Hist	SS+Hist	SS+Hist	SS+Hist			SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist	
	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit	SS+Lit

Normal Academic Course

No of Subj	6	6	6	6	6	6	6	6
Code	**A1**	**A2**	**R1**	**R2**	**D1**	**D2**	**F1**	**F2**
Subjects	EL	EL	EL	EL	EL	EL	EL	EL
	MT	MT	MT	MT	MT	MT	MT	MT
	Math	Math	Math	Math	Math	Math	Math	Math
	A Math	A Math	Art	Art	D&T	D&T	NFS	NFS
Science	Sci(P/C)		Sci(P/C)		Sci(P/C)		Sci(P/C)	
		Sci(C/B)		Sci(C/B)		Sci(C/B)		Sci(C/B)
Humanities (Choose One)	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog	SS+Geog
	SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist	SS+Hist

Normal Technical Course

No of Subj	6	6
Code	**DT**	**FS**
Subjects	EL	EL
	MT	MT
	Math	Math
	CPA	CPA
	Science	Science
Choose one	D&T	Food Studies

Higher Level Out-of-Stream (OOS) Subjects ('O' level) for Normal (Academic) Students

Progression Opportunities for N(A) Students

Eligible Sec 4 N(A) students may go on to Sec 5 N(A), Polytechnic Foundation Programme (PFP), Direct-Entry-Scheme to Polytechnic Programme (DPP) or ITE Nitec Courses at the end of Sec 4. A strong foundation in literacy, numeracy and reasoning would provide students with higher chances of qualifying for the more demanding programmes. Therefore, eligible students are encouraged to take up these subjects at higher level.

MOE Policies on OOS Subjects for N(A) Students

1. Sec 2 N(A) students can offer higher level OOS (i.e. 'O' level) subjects at Sec 3 if they have done well in Sec 2 school exams and met the following eligibility criteria.

'O' Level Subjects	Eligibility Criteria	
	SBB (Subject-Based Banding) Students (Students who have taken the higher level subject since Sec 1 or 2)	Non-SBB Students (Students who have not taken the higher level subject in Sec 1 or 2)
EL MTL Science Mathematics	• Met promotion criteria • Pass the specific subject at EXP Level • ≥ 60% in the overall average	• Met promotion criteria • ≥ 75% in the specific subject at N(A) Level • ≥ 60% in the overall average
Design & Technology*	There is no Design & Technology SBB in Sec 1 or 2.	• Met promotion criteria at Sec 3 • ≥ 70% in the specific subject at N(A) Level • ≥ 60% in the overall average

Note: The 'O' Level subject will replace the corresponding 'N' Level subject. If students are not coping well for the 'O' Level subject by end of Sec 3, they may be asked to switch back to the subject at 'N(A)' level.
** For D&T, students are offered higher level at Sec 4 based on their Sec 3 year-end results.*

2. Graduating N(A) students are strongly encouraged to register for the 'O' level subjects only instead of duplicating subjects at 'NA' level as well (i.e. to sit for the 'O' level subject at 'N(A)' level as well). Only one of the duplicate subjects (i.e. either 'O' or 'N(A)' level subject) can be used to compute aggregate points for admission to post-secondary education institutions. Students who are unsure are encouraged to discuss assessment demands vis a vis their performance with their subject teachers.

3. As a norm, students can only register for up to a maximum of 8 subjects for the GCE 'N(A)' and 'O' Level exams combined, including duplicate subjects which will count as two separate subjects. Students who wish to register for more than 8 subjects will need MOE's approval. Based on our student profile, eligible students are advised to keep to at most two 'O' level subjects in order to cope well with the greater challenges. Subject teachers' recommendation will also be taken into consideration.

   Grade Conversion

   Students may combine their GCE 'O' and 'N(A)' Level results to compute their ELMAB3 aggregate score, for merit-based admission into PFP and DPP:

GCE 'O' Level Grade	GCE 'N(A)' Level Grade
A1 – B3	1
B4 – C6	2
D7 E8 (for DPP only)	3

Note: For PFP: Grades E8 & F9 will not be considered. For DPP: Grade F9 will not be considered.

Higher Level Out-of-Stream (OOS) Subjects ('N(A)' level) for Normal (Technical) Students

Progression Opportunities for N(T) Students

Eligible Sec 4 N(T) may go on to ITE Nitec courses or laterally transfer to Sec 4(NA) at the end of Sec 4. Posting of applicants to Nitec courses is based on aggregate of best 4 GCE 'N' Level subjects (including pre-requisite subjects and bonus points where applicable) and course-specific entry requirements, and subject to vacancies in open competition. Many Nitec courses require a pass in subjects such as English, Mathematics and Science – good foundation in these subjects will help students perform well in the Nitec courses. Therefore, eligible students are encouraged to take up these subjects at higher level.

MOE Policies on OOS Subjects for N(T) Students

1. Sec 2 N(T) students can offer higher level OOS ('N(A)' level) subjects at Sec 3 if they have done well in Sec 2 school exams and met the following eligibility criteria.

'N(A)' Level Subjects	Eligibility Criteria	
	SBB Students (Students who have taken the higher level subject since Sec 1 or 2)	Non-SBB Students
EL MTL Mathematics Science	• Meeting promotion criteria • Pass the specific subject at N(A) Level • ≥ 60% in the overall average	• Meeting promotion criteria • **≥ 75%** in the specific subject at N(T) Level • ≥ 60% in the overall average

Note: The 'N(A)' Level subject will replace the corresponding 'N(T)' Level subject. If students are not coping well for the higher level subject by end of Sec 3, they may be asked to switch to the subject at 'N(T)' level.

2. Graduating N(T) students are strongly encouraged to register for the 'N(A)' level subjects only instead of duplicating subjects at N(T) level as well (ie. to sit for the 'N(A)' level subject at 'N(T)' level as well). Only one of the duplicate subjects (i.e. either 'N(A)' or 'N(T)' level subject) can be used to compute aggregate points for admission to ITE. Students who are unsure are encouraged to discuss assessment demands vis a vis their performance with their subject teachers.

3. As a norm, students can only register for up to a maximum of 7 subjects for the GCE 'N' Level exams combined, including duplicate subjects which will count as two separate subjects. MOE's approval will be required for students who wish to register for more than 7 subjects or 2 sets of duplicate subjects. Based on our student profile, eligible students are advised to keep to at most two 'N(A)' level subjects in order to cope well with the greater challenges. Subject teachers' recommendation will also be taken into consideration.

Grade Conversion

GCE 'N(A)' Level Grade	GCE 'N(T)' Level Grade	ITE Aggregate Point
1, 2	A	1
3	B	2
4	C	3
5	D	4
U	U	5

Bonus points are awarded for eligible applicants in the posting process:

Types of Bonus Points	Number of Bonus Points Awarded
N(A) Passing Grades: Grades 1–5 for pre-requisite subjects for the course applied for	2 points for each pre-requisite subject, up to a max of 4 points

1b) Subject Demands

When choosing subjects, students should be mindful of their post-secondary educational aspirations, interests and abilities, demands of each subject, and the total academic load of each combination. For each of their choices, they should select with care.

Subjects combinations are allocated based on merit (i.e. Sec 2 overall results, weighted based on subjects in selected combination), student's choice and availability of school's resources.

Students should refer to the table below to gain a better understanding of each subject's demand at Upper Secondary and corresponding recommended grade *(last column)* to guide their choices and efforts. The recommended grade indicates the proficiency level students should have in the subject at end of Sec 2 in order to cope reasonably well with the elective subject at upper secondary. The recommended grade does not act as a cut-off and has no bearing on the allocation of subject combinations to students.

Subject	Courses applicable	Subject Demands	Recommended Grade ***See notes above.***
1. Additional Mathematics	O & N(A)	Additional Mathematics provides an extended platform to develop students' problem solving ability. Students will develop their logical and analytical thinking skills. Solving abstract mathematical problems in real world context helps students to think creatively and strategically.	For N(A) At least B3 in Mathematics For Express At least a C6 in Mathematics
2. Art **coursework-based subject*	O & N(A)	Students should have an interest in the visual arts as a means of expression and its significance in the context of culture and society. Students will learn to express their thoughts, experiences and feelings in visual and tactile forms through media such as drawing, painting, and illustration. They will enhance their visual literacy through coursework which covers ideation, creative exploration, and organisation of visual information for presentation.	At least a C6 in Art
3. Design & Technology **coursework-based subject*	O & N(A)	Students should be keen in analytical thinking and hands-on learning. They should be interested in the study of product design to enhance quality of life. The subject's focus is on engaging students in ideation, designing and prototyping of innovative products with the application of technology.	At least a C6 in D&T
4. Nutrition and Food Science **coursework-based subject*	O & N(A)	Students should have an interest in the nutrition and diet, culinary science and sustainable food consumption. A key focus of the subject is in cultivating a scientific understanding of cooking, food preparation methods and the knowledge of food ingredients and their nutrition, as needed in the creation of healthy and nutritious meals.	At least a C6 in FCE.
5. Humanities (Social Studies, Geography)	O & N(A)	Students should have an interest in Geography and Geographical fieldwork. They will study the physical and human aspects of Geography, specifically Living with Tectonic Hazards, Variable Weather and Climate, Global Tourism and Food Resources (not for N(A)). They will then apply the concepts learnt, interpret and evaluate, making judgement on the geographical data given.	-
6. Humanities (Social Studies, History)	O & N(A)	Students should have an interest in History. They will learn historical concepts and knowledge about the developments in Europe from World War I to the end of World War II in Europe and the Asia-Pacific as well as the Cold War rivalry between the superpowers. They will also learn to interact with	-

		historical sources and develop skills to evaluate the validity of sources based on a given context.	
7. Science (Physics, Chemistry)	O & N(A)	Students who have an interest in Chemistry and Physics but wish to study the subjects with a less demanding curriculum.	-
8. Science (Chemistry, Biology)	O & N(A)	Students who have an interest in Chemistry and Biology but wish to study the subjects with a less demanding curriculum.	-
9. Biology	O	Students should have an interest in the scientific study of the correlation of cell structure to function, regulation of life processes, continuity of life and our environment.	At least B3 in Science and good overall results
10. Chemistry	O	Students should have an interest in the study of basic characteristics of substances such as their structure, composition, properties, as well as their reactive characteristics and the different ways in which they react or combine with other substances.	At least B3 in Science and good overall results
11. Electronics **applied subject*	O	Students should enjoy hands-on learning and be keen in applying the knowledge in electronics components and circuit theories to develop solutions to problems found in their everyday lives.	At least B4 in Mathematics and Science and good overall results.
12. Geography	O	Students should have a strong interest in Geography and desire to pursue their interest in the Humanities in the future. In addition to studying the topics covered in Humanities (Geography), they will study additional topics such as Coasts and Health and Diseases and develop relevant fieldwork techniques to interpret and evaluate given geographical data.	At least B4 in Geography
13. History	O	Students should have a strong interest in History and desire to pursue their interest in the Humanities in the future. In addition to studying the topics covered in Humanities (History), they will learn historical concepts and knowledge about European colonisation of Southeast Asia and the decolonisation of Southeast Asian states after World War II. They will also learn to understand, analyse and evaluate a range of source materials as part of historical inquiry.	At least B4 in History
14. Humanities (Social Studies, Literature)	O	Students should have a keen interest in the reading and study of literary texts, specifically poetry and prose. A key focus of the subject is the critical analysis of how language is purposefully and creatively used in texts to create meaning, and to explore issues or themes, such as identity, family relationships, prejudice and war.	At least B4 in both English Language and Literature.
15. Music	O	Students should have an interest in Listening, Creating and Performing. Students can expect to draw connections and links to the music that they listen to, perform and create. They will have the opportunity to explore a wide range of genres and styles and make music, both individually and in ensembles. **Note: The subject is taken outside curriculum time at a Music Centre (one session 3 hours per week).** **All applicants have to submit video-recordings as audition submission (Component 1) and sit for Listening Test (Component 2) with Music Centre.**	-
16. Physics	O	Students should have an interest in the scientific study of matter and energy, and the effect that they	At least B3 in Science and good overall results

		have on each other in the fields of electricity, heat, light, mechanics, and sound.	
17. Design & Technology *coursework-based subject	N(T)	Students should have an interest in pursuing a career in the product design and/or engineering sector. They will be engaged in designing and prototyping ideas through applying technology. Students will demonstrate their knowledge and skills acquired in the creation of a prototype that will enhance the quality of life.	
18. Food Studies	N(T)	Students should have an interest in pursuing a career related to the food industry. They will be equipped with the knowledge of food commodities, the basic concepts of nutrition and meal planning and the understanding of their impact on health. Students will demonstrate their theoretical knowledge, investigative and culinary skills through their coursework.	

1c) Subject Synopses

1. Additional Mathematics

Course Content
- Algebra
- Geometry and Trigonometry
- Calculus

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Structured questions	2 h 15 min	50%
	2	Structured questions	2 h 15 min	50%
N(A)	1	Structured questions	1 h 45 min	50%
	2	Structured questions	1 h 45 min	50%

2. Art

Course Content
- Studio Practice
- Study of Visual Arts

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Coursework	~	60%
	2	Drawing & Painting	3 h	40%
N(A)	1	Coursework	~	60%
	2	Drawing & Painting	3 h	40%

3. Design & Technology

Course Content
- Design
- Technological Areas
- Materials and Practical processes

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Written Examination	2 h	40%
	2	Design Project	22 weeks	60%
N(A)	1	Written Examination	1 h 30 min	40%
	2	Design Project	20 weeks	60%

4. Nutrition and Food Science

Course Content
- Nutrition and diet
- Food Literacy
- Food Science
- Sustainable Food Consumption

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Written Paper	2 h	40%
	2	Coursework	~	60%
N(A)	1	Written Paper	1 h 30 min	40%
	2	Coursework	~	60%

5. Humanities (Social Studies, Geography)

Course Content (Social Studies)	Course Content (Geography)
❖ Exploring Citizenship and Governance ❖ Living in a Diverse Society ❖ Being Part of a Globalised World	❖ Our Dynamic Planet (Physical Geography) ❖ Our Changing World (Human Geography) ❖ Geographical Investigations

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Source-Based Case Study and Structured-Response Question (Social Studies)	1h 45min	50%
	2	Structured Questions (Geography)	1h 40min	50%
N(A)	1	Source-Based Case Study and Structured-Response Question (Social Studies)	1h 45min	50%
	2	Structured Questions (Geography)	1h 40min	50%

6. Humanities (Social Studies, History)

Course Content (Social Studies)	Course Content (History)
❖ Exploring Citizenship and Governance ❖ Living in a Diverse Society ❖ Being Part of a Globalised World	❖ The World in Crisis ❖ Bi-Polarity and the Cold War

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Source-Based Case Study and Structured-Response Question (Social Studies)	1h 45min	50%
	2	Source-Based Case Study and Structured Essay Questions (History)	1h 40min	50%
N(A)	1	Source-Based Case Study and Structured-Response Question (Social Studies)	1h 45min	50%
	2	Source-Based Case Study and Structured-Essay Questions (History)	1h 40min	50%

7. Science (Chemistry, Physics / Biology)

Course Content (Chemistry)	Course Content (Physics)	Course Content (Biology)
❖ Experimental Chemistry ❖ Atomic Structure and Stoichiometry ❖ Chemistry of Reactions ❖ Periodicity ❖ Atmosphere ❖ Organic Chemistry	❖ Measurement ❖ Newtonian Mechanics ❖ Thermal Physics ❖ Waves ❖ Electricity and Magnetism	❖ Principles of Biology ❖ Maintenance and Regulation of Life Processes ❖ Continuity of Life ❖ Man and his Environment (for O levels only)

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Multiple Choice	1 h	20%
	2	Structured and Free Response (Physics)	1 h 15 min	32.5%
	3	Structured and Free Response (Chemistry)	1 h 15 min	32.5%
	4	Structured and Free Response (Biology)	1 h 15 min	32.5%
	5	Practical Test	1 h 30 min	15%
N(A)	1	Multiple Choice (Physics)	1 h 15 min	20%
	2	Structured (Physics)		30%
	3	Multiple Choice (Chemistry)	1 h 15 min	20%
	4	Structured (Chemistry)		30%
	5	Multiple Choice (Biology)	1 h 15 min	20%
	6	Structured (Biology)		30%

8. Biology

Course Content
- ❖ Principles of Biology
- ❖ Maintenance and Regulation of Life Processes
- ❖ Continuity of Life
- ❖ Man and his Environment

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Multiple Choice	1 h	30%
	2	Structured and Free Response	1 h 45 min	50%
	3	Practical	1 h 50 min	20%

9. Chemistry

Course Content
- ❖ Experimental Chemistry
- ❖ Atomic Structure and Stoichiometry
- ❖ Chemistry of Reactions
- ❖ Periodicity
- ❖ Atmosphere
- ❖ Organic Chemistry

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Multiple Choice	1 h	30%
	2	Structured and Free Response	1 h 45 min	50%
	3	Practical	1 h 50 min	20%

10. Applied Subject – Electronics

Course Content

- Systems
- Fundamentals of Electricity
- Analogue Electronics
- Digital Electronics
- Engineering Design Process

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Section A: Short Answer Questions Section B: Long questions	2 h	70%
	2	Application-Specific Electronic Project	32 h	30%

11. Geography

Course Content	Course Content
Paper 1	Paper 2
❖ Coasts ❖ Global Tourism	❖ Living with Tectonic Hazards ❖ Variable Weather and Changing Climate ❖ Food Resources ❖ Health and Diseases

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Geographical Investigations and Structured Question	1h 40min	50%
	2	Structured Questions	1h 30min	50%

12. History

Course Content	Course Content
Paper 1: European Dominance and Challenges (1870s–1945)	Paper 2: The Bi-Polar World Order (1945–1991)
❖ European Dominance and Expansion in the late 19th Century ❖ The World in Crisis	❖ Bi-Polarity and the Cold War ❖ Decolonisation and Emergence of Nation-States

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Source-Based Case Study and Structured-Essay Question	1h 40min	50%
	2	Source-Based Case Study and Structured-Essay Question	1h 40min	50%

13. Humanities (Social Studies, Literature)

Course Content (Social Studies)	Course Content (Literature)
❖ Exploring Citizenship and Governance ❖ Living in a Diverse Society ❖ Being Part of a Globalised World	❖ Prose (Set Text) ❖ Poetry (Unseen Texts)

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Source-Based Case Study and Structured-Response Question (Social Studies)	1h 45min	50%
	2	Passage-Based Question and Essay - Prose and Unseen Texts (Prose and Poetry) (Literature Elective)	1h 40min	50%

14. Music

Course Content
- ❖ Western Classical Tradition
- ❖ Asian Music
- ❖ Jazz
- ❖ Popular Music
- ❖ Music in Multimedia Music Studies

Examination Requirements

Level	Paper	Title	Details	Duration	Weighting
O	1	Music Studies	Written Examination	1 hour 30 min	40%
	2	Creating	(i) Coursework	9 weeks, 5 hours of supervision time	30%
			(ii) Reflection Notes		
	3	Performing	(i) Recital	5-10 min	30%
			(ii) Reflection Notes	-	

15. Physics

Course Content
- ❖ Measurement
- ❖ Newtonian Mechanics
- ❖ Thermal Physics
- ❖ Waves
- ❖ Electricity and Magnetism

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Multiple Choice	1 h	30%
	2	Structured and Free Response	1 h 45 min	50%
	3	Practical	1 h 50 min	20%

16. NT Design & Technology

Course Content

- Design
- Technological Areas
- Materials and Practical processes

Students will learn to apply knowledge and skills in a simulated retail workplace setting.

Examination Requirements

Level	Paper	Details	Duration	Weighting
N(T)	1	Written Examination	1 h	30%
	2	Design Project	20 weeks	70%

17. NT Computer Applications

Course Content

- Computer Fundamentals
- Media Elements
- Document Processing
- Spreadsheets
- Multimedia Communication
- Media Computing

Examination Requirements

Level	Paper	Details	Duration	Weighting
N(T)	1	Written Paper	1 h 15 min	30%
	2	Lab-Based – Media Elements, Document Processing and Multimedia Communication	1 h 30 min	35%
	3	Lab-based – Spreadsheets and Media Computing	1 h 30 min	35%

18. NT Food Studies

Course Content

- Properties and uses of food commodities
- Principles of methods of preparation and cooking
- Basic concepts of nutrition and meal planning
- Coursework and culinary skills

Students will learn to apply knowledge and skills to plan and prepare healthy meals using a varieties of food commodities and methods of cooking.

Examination Requirements

Level	Paper	Details	Duration	Weighting
N(T)	1	Written Paper – Short Answer Questions, Data Response Questions and Structured Questions.	1 h 30 min	40%
	2	Coursework – Report Writing and Practical Exam.	35 h	60%

POST-SECONDARY SCHOOL EDUCATION

2a) GCE 'A' Level Curriculum

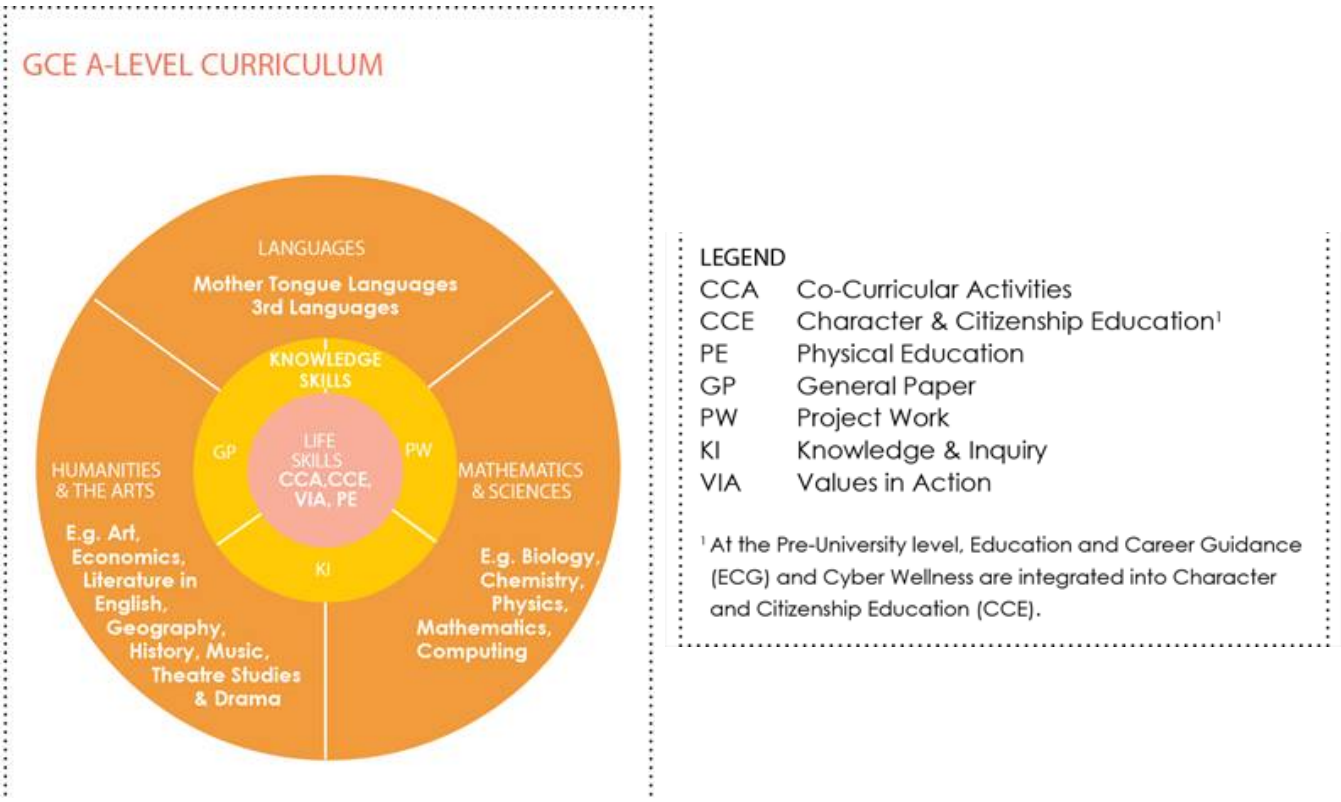
https://www.moe.gov.sg/post-secondary/a-level-curriculum-and-subject-syllabuses

The curriculum comprises:

Life Skills
The inner circle centring on life skills ensures that students acquire sound values and skills to take them through life as responsible adults and active citizens. It comprises the non-academic curriculum

Knowledge Skills
The middle circle on knowledge skills seeks to develop students' thinking, process and communication skills. This will enable students to analyse information and express their thoughts and ideas clearly and effectively. It comprises skills-based subjects.

Subject disciplines
The outermost circle covers the subject disciplines i.e. Languages, Humanities & the Arts, and Mathematics & Sciences. It ensures that students have a good grounding across different areas of study.



General Information

There is flexibility and diversity in your choice of subject combinations with subjects offered at three levels of study – Higher 1 (H1), Higher 2 (H2) and Higher 3 (H3). These levels of study are structured to cater to your interests and abilities. You will need to offer a contrasting subject – a subject outside your main area of specialisation – to broaden your educational experience.

Mother Tongue B is not an AO, A, H1 or H2-Level subject. Performance in the Chinese B / Malay B / Tamil B is indicated as Merit, Pass or Ungraded. Candidates who pass the Mother Tongue B will be deemed to have met the Mother Tongue requirement for admission to University. However, no consideration will be given in the computation of university admission score.

2b(i) Entry Criteria for Junior Colleges and Millennia Institute

Junior Colleges

The criteria for JC entry are 20 points for L1R5 i.e. English Language / Higher Mother Tongue and 5 relevant subjects. The 5 relevant subjects must be taken from the list as given below.

L1	First Language	English / Higher Mother Tongue
R5	Relevant Subject 1	Humanities/ Higher Art/ Higher Music/ Malay (Special Programme)/ Chinese (Special Programme)/ Bahasa Indonesia
	Relevant Subject 2	Mathematics/ Science
	Relevant Subject 3	Humanities/ Higher Art/ Higher Music/ Mathematics/ Science/ Malay (Special Programme)/ Chinese (Special Programme)/ Bahasa Indonesia
	Relevant Subject 4	Any other GCE 'O' Level subjects (except Religious Knowledge)
	Relevant Subject 5	Any other GCE 'O' Level subjects (except Religious Knowledge)

CCA Bonus Points

Students can have 2 bonus points deduction with an 'Excellent' attainment in CCA and 1 bonus point with a 'Good' attainment in CCA. However, it should noted that the bonus points are used for ranking of students during the posting procedure. They are not taken into consideration in determining whether a student is eligible for a specific course.

Millennia Institute

The criteria for Centralised Institutes are 20 points for L1R4 i.e. English Language / Higher Mother Tongue and 4 relevant subjects. The 4 relevant subjects must be taken from the list as given below.

L1	First Language	English / Higher Mother Tongue
R4	Relevant Subject 1	Humanities/ Higher Art/ Higher Music/ Mathematics/ Science/ Malay (Special Programme)/ Chinese (Special Programme)/ Bahasa Indonesia
	Relevant Subject 2	Humanities/ Higher Art/ Higher Music/ Mathematics/ Science/ Malay (Special Programme)/ Chinese (Special Programme)/ Bahasa Indonesia
	Relevant Subject 3	Any other GCE 'O' Level subjects (except Religious Knowledge)
	Relevant Subject 4	Any other GCE 'O' Level subjects (except Religious Knowledge)

PREVIOUS YEAR CUT-OFF POINTS FOR JUNIOR COLLEGES

S/No	Junior College	2021 Cut-Off Point	
		Arts	Science/IB
1	Anderson Serangoon JC	11	11
2	Anglo-Chinese JC	9	8
3	Anglo-Chinese School (Independent), ACSI	N.A	5
4	Catholic JC	13	13
5	Dunman High School	9	8
6	Eunoia JC	8	7
7	Hwa Chong Institution	5	4
8	Jurong Pioneer JC	16	15
9	Nanyang JC	6	6
10	National JC	8	7
11	Raffles Institution	5	4
12	River Valley High School	9	8
13	St. Andrew's JC	11	10
14	St. Joseph's Institution, SJI	N.A	8
15	Tampines Meridian JC	13	13
16	Temasek JC	9	9
17	Victoria JC	8	7
18	Yishun Innova JC	19	20

2b(ii) Entry Criteria for Polytechnics

https://www.polytechnic.edu.sg/

The criteria for entry to the Polytechnics are based on ELR2B2, i.e. English Language, 2 relevant subjects and 2 other best subjects. Successful posting to a course of choice would depend on the competition for available places. (See below for previous year cut-off points)

		ELR2B2 : For Polytechnic Courses			
Course Group		Humanities/ Media and Design – Related Courses (ELR2B2-A)	Business-Related Courses (ELR2B2-B)	Science & Technology Courses (ELR2B2-C)	Design Courses (ELR2B2-D)
EL		English			
R2	1st Group of Relevant Subjects	Art/Art & Design Business Studies Combined Humanities Commerce Commercial Studies Economics Geography Higher Art Higher Music History Humanities (Social Studies, Literature in English) Humanities (Social Studies, Literature in Chinese) Humanities (Social Studies, Literature in Malay) Humanities (Social Studies, Literature in Tamil) Humanities (Social Studies, History) Humanities (Social Studies, Geography) Intro to Enterprise Development Literature in English Literature in Chinese Literature in Malay Literature in Tamil Media Studies (English) Media Studies (Chinese) Music	Elementary Mathematics Additional Mathematics		
	2nd Group of Relevant	Additional Mathematics Art/Art & Design Business Studies Chinese Combined Humanities Commerce Commercial Studies Creative 3D Animation Design & Technology Design Studies Economics Elementary Mathematics Food & Nutrition Geography Higher Art Higher Chinese Higher Malay Higher Music Higher Tamil History Humanities (Social Studies, Literature in English) Humanities (Social Studies, Literature in Chinese) Humanities (Social Studies, Literature in Malay) Humanities (Social Studies, Literature in Tamil) Humanities (Social Studies, History) Humanities (Social Studies, Geography) Intro to Enterprise Development Literature in English	Art/Art & Design Business Studies Combined Humanities Commerce Commercial Studies Economics Geography Higher Art Higher Music History Humanities (Social Studies, Literature in English) Humanities (Social Studies, Literature in Chinese) Humanities (Social Studies, Literature in Malay) Humanities (Social Studies, Literature in Tamil) Humanities (Social Studies, History) Humanities (Social Studies, Geography) Intro to Enterprise Development Literature in English Literature in Chinese Literature in Malay Literature in Tamil	Addn Combined Science Additional Science Biology Biotechnology Chemistry Combined Science Computing/Computer Studies Creative 3D Animation Design & Technology Food & Nutrition Electronics/Fundamentals of Electronics General Science Human & Social Biology Integrated Science Physics/Engineering Science Science (Chem, Bio) Science (Phy, Bio) Science (Phy,Chem)/ Physical Science Science (Phy, Chem, Bio)	Addn Combined Science Additional Science Art/Art & Design Biology Biotechnology Chemistry Combined Science Computing/Computer Studies Creative 3D Animation Design & Technology Design Studies Food & Nutrition Electronics/Fundamentals of Electronics General Science Higher Art Human & Social Biology Integrated Science Media Studies (English) Media Studies (Chinese) Physics/Engineering Science Science (Chem, Bio) Science (Phy, Bio) Science (Phy, Chem)/Physical Science Science (Phy, Chem, Bio)

		Literature in Chinese Literature in Malay Literature in Tamil Malay Media Studies (English) Media Studies (Chinese) Music Principles of Accounts Tamil	Media Studies (English) Media Studies (Chinese) Music Principles of Accounts		
B2			Best 2 other subjects		

CCA Bonus Points

Students who meet the minimum entry requirements for admission to a Polytechnic course and have done well in CCA will receive bonus points when being considered for admission into their chosen course of study.

Qualification	CCA attainment	No. of Bonus Points Awarded
GCE 'O' Level holders	Excellent (A1 - A2)	2 points
	Good (B3 - C6)	1 point

PREVIOUS YEAR CUT-OFF POINTS (COP) FOR POLYTECHNICS

http://www.polytechnic.edu.sg/introduction/available-courses

COURSE_TITLE	JAE_COURSE_CLUSTER	POLY	JAE_ELR2B2
Applied Chemistry	APPLIED SCIENCES	SP	9
Applied Chemistry	APPLIED SCIENCES	RP	19
Applied Chemistry (New!)	APPLIED SCIENCES	NYP	11
Biologics & Process Technology	APPLIED SCIENCES	NYP	12
Biomedical Engineering	APPLIED SCIENCES	TP	13
Biomedical Science	APPLIED SCIENCES	NP	8
Biomedical Science	APPLIED SCIENCES	RP	12
Biomedical Science	APPLIED SCIENCES	SP	7
Biotechnology	APPLIED SCIENCES	RP	17
Chemical & Biomolecular Engineering	APPLIED SCIENCES	NP	11
Chemical & Pharmaceutical Technology	APPLIED SCIENCES	NYP	15
Chemical Engineering	APPLIED SCIENCES	SP	13
Chemical Engineering	APPLIED SCIENCES	TP	15
Common Science Programme (New!)	APPLIED SCIENCES	RP	18
Environmental & Water Technology	APPLIED SCIENCES	NP	14
Environmental & Marine Science	APPLIED SCIENCES	RP	13
Food Science & Nutrition	APPLIED SCIENCES	NYP	13
Food Science & Technology	APPLIED SCIENCES	SP	12
Food, Nutrition & Culinary Science	APPLIED SCIENCES	TP	14
Landscape Design & Horticulture	APPLIED SCIENCES	NP	16
Medical Biotechnology	APPLIED SCIENCES	TP	11
Perfumery & Cosmetic Science	APPLIED SCIENCES	SP	12
Pharmaceutical Science	APPLIED SCIENCES	NYP	10
Pharmaceutical Science	APPLIED SCIENCES	NP	9
Pharmaceutical Science	APPLIED SCIENCES	RP	16
Pharmaceutical Science	APPLIED SCIENCES	TP	11
Veterinary Technology	APPLIED SCIENCES	TP	10
Architecture	BUILT ENVIRONMENT	NYP	15
Architecture	BUILT ENVIRONMENT	SP	13
Civil Engineering	BUILT ENVIRONMENT	SP	22
Facilities Management	BUILT ENVIRONMENT	SP	18
Architectural Technology & Building Services (New!)	BUILT ENVIRONMENT	TP	18
Hotel & Leisure Facilities Management	BUILT ENVIRONMENT	NP	17
Integrated Events & Project Management	BUILT ENVIRONMENT	SP	15
Integrated Facility Management	BUILT ENVIRONMENT	TP	19
Landscape Architecture	BUILT ENVIRONMENT	SP	15
Real Estate Business	BUILT ENVIRONMENT	NP	15
Accountancy	BUSINESS & MANAGEMENT	NP	11
Accountancy	BUSINESS & MANAGEMENT	SP	12
Accountancy & Finance	BUSINESS & MANAGEMENT	NYP	12
Accountancy & Finance	BUSINESS & MANAGEMENT	TP	12
Arts Business Management	BUSINESS & MANAGEMENT	NP	9

Aviation Management	BUSINESS & MANAGEMENT	RP	20
Aviation Management	BUSINESS & MANAGEMENT	TP	15
Banking & Finance	BUSINESS & MANAGEMENT	NYP	13
Banking & Finance	BUSINESS & MANAGEMENT	NP	11
Banking & Finance	BUSINESS & MANAGEMENT	SP	12
Business (New!)	BUSINESS & MANAGEMENT	RP	21
Business	BUSINESS & MANAGEMENT	TP	14
Business Administration	BUSINESS & MANAGEMENT	SP	13
Business Management	BUSINESS & MANAGEMENT	NYP	16
Business Process & Systems Engineering	BUSINESS & MANAGEMENT	TP	17
Business Studies	BUSINESS & MANAGEMENT	NP	9
Common Business Programme (New!)	BUSINESS & MANAGEMENT	NYP	16
Common Business Programme	BUSINESS & MANAGEMENT	NP	12
Common Business Programme	BUSINESS & MANAGEMENT	RP	26
Common Business Programme	BUSINESS & MANAGEMENT	SP	13
Common Business Programme	BUSINESS & MANAGEMENT	TP	15
Communications & Media Management	BUSINESS & MANAGEMENT	TP	13
Consumer Behaviour & Research	BUSINESS & MANAGEMENT	RP	20
Culinary & Catering Management	BUSINESS & MANAGEMENT	TP	18
Customer Experience Management with Business	BUSINESS & MANAGEMENT	RP	25
Food & Beverage Business	BUSINESS & MANAGEMENT	NYP	16
Hospitality & Tourism Management	BUSINESS & MANAGEMENT	NYP	17
Hospitality & Tourism Management	BUSINESS & MANAGEMENT	TP	17
Hotel & Hospitality Management	BUSINESS & MANAGEMENT	RP	26
Human Resource Management with Psychology	BUSINESS & MANAGEMENT	RP	16
Human Resource Management with Psychology	BUSINESS & MANAGEMENT	SP	12
Industrial & Operations Management	BUSINESS & MANAGEMENT	RP	24
Integrated Events Management	BUSINESS & MANAGEMENT	RP	26
International Trade & Business	BUSINESS & MANAGEMENT	NP	12
Law & Management	BUSINESS & MANAGEMENT	TP	11
Logistics & Operations Management	BUSINESS & MANAGEMENT	TP	17
Marketing	BUSINESS & MANAGEMENT	TP	15
Mass Media Management	BUSINESS & MANAGEMENT	NYP	12
Outdoor & Adventure Learning	BUSINESS & MANAGEMENT	RP	25
Restaurant & Culinary Operations	BUSINESS & MANAGEMENT	RP	24
Sport & Wellness Management	BUSINESS & MANAGEMENT	NYP	15
Supply Chain Management	BUSINESS & MANAGEMENT	RP	26
Tourism & Resort Management	BUSINESS & MANAGEMENT	NP	13
Advanced & Digital Manufacturing	ENGINEERING	NYP	26
Aeronautical & Aerospace Technology	ENGINEERING	NYP	16
Aeronautical Engineering	ENGINEERING	SP	15
Aerospace Electronics	ENGINEERING	SP	15
Aerospace Electronics	ENGINEERING	TP	26
Aerospace Engineering	ENGINEERING	NP	16
Aerospace Engineering	ENGINEERING	RP	25
Aerospace Engineering	ENGINEERING	TP	18
Aerospace Systems & Management	ENGINEERING	NYP	19
Automation & Mechatronic Systems	ENGINEERING	NP	20
Aviation Management	ENGINEERING	RP	23
Biomedical Engineering	ENGINEERING	NYP	13
Biomedical Engineering	ENGINEERING	NP	12
Common Engineering Programme	ENGINEERING	NYP	26
Common Engineering Programme	ENGINEERING	NP	19
Common Engineering Programme	ENGINEERING	RP	26
Common Engineering Programme	ENGINEERING	SP	16
Common Engineering Programme	ENGINEERING	TP	24
Computer Engineering	ENGINEERING	SP	13
Computer Engineering	ENGINEERING	TP	14
Electrical & Electronic Engineering	ENGINEERING	RP	26
Electrical & Electronic Engineering	ENGINEERING	SP	18
Electrical Engineering	ENGINEERING	NP	20
Electronic & Computer Engineering	ENGINEERING	NYP	18
Electronic & Computer Engineering	ENGINEERING	NP	16

Electronics	ENGINEERING	TP	18
Engineering Design with Business	ENGINEERING	RP	26
Engineering Science	ENGINEERING	NP	12
Engineering Systems & Management	ENGINEERING	RP	25
Engineering With Business	ENGINEERING	NYP	14
Engineering with Business	ENGINEERING	SP	12
Infocomm & Media Engineering	ENGINEERING	NYP	22
Industrial & Operations Management (New!)	ENGINEERING	RP	26
Mechanical Engineering	ENGINEERING	NP	22
Mechanical Engineering	ENGINEERING	SP	19
Mechatronics	ENGINEERING	TP	18
Mechatronics & Robotics	ENGINEERING	SP	15
Nanotechnology & Materials Science	ENGINEERING	NYP	14
Robotics & Mechatronics	ENGINEERING	NYP	23
Supply Chain Management (New!)	ENGINEERING	RP	25
Sustainable Built Environment	ENGINEERING	RP	26
Health Management & Promotion	HEALTH SCIENCES	RP	26
Health Services Management	HEALTH SCIENCES	RP	25
Nursing	HEALTH SCIENCES	NYP	28
Nursing	HEALTH SCIENCES	NP	26
Optometry	HEALTH SCIENCES	NP	13
Optometry	HEALTH SCIENCES	SP	13
Oral Health Therapy	HEALTH SCIENCES	NYP	11
Social Work	HEALTH SCIENCES	NYP	9
Sport & Exercise Science	HEALTH SCIENCES	RP	15
Sport Coaching	HEALTH SCIENCES	RP	16
Chinese Studies	HUMANITIES	NP	13
Community Development (New!)	HUMANITIES	NP	10
Early Childhood Development & Education	HUMANITIES	NP	18
Early Childhood Development & Education	HUMANITIES	TP	15
Psychology Studies	HUMANITIES	TP	10
Social Sciences in Gerontology	HUMANITIES	TP	14
Tamil Studies with Early Education	HUMANITIES	NP	21
Applied AI & Analytics (New!)	INFORMATION & DIGITAL TECHNOLOGIES	SP	9
Applied Artificial Intelligence (New!)	INFORMATION & DIGITAL TECHNOLOGIES	TP	11
Big Data & Analytics	INFORMATION & DIGITAL TECHNOLOGIES	TP	13
Business Information Systems	INFORMATION & DIGITAL TECHNOLOGIES	RP	26
Business & Financial Technology	INFORMATION & DIGITAL TECHNOLOGIES	NYP	15
Business Intelligence & Analytics	INFORMATION & DIGITAL TECHNOLOGIES	NYP	11
Common ICT Programme	INFORMATION & DIGITAL TECHNOLOGIES	NYP	15
Common ICT Programme	INFORMATION & DIGITAL TECHNOLOGIES	NP	13
Common ICT Programme	INFORMATION & DIGITAL TECHNOLOGIES	RP	26
Common ICT Programme	INFORMATION & DIGITAL TECHNOLOGIES	SP	12
Common ICT Programme	INFORMATION & DIGITAL TECHNOLOGIES	TP	16
Cybersecurity & Digital Forensics	INFORMATION & DIGITAL TECHNOLOGIES	NYP	9
Cybersecurity & Digital Forensics	INFORMATION & DIGITAL TECHNOLOGIES	NP	8
Cybersecurity & Digital Forensics	INFORMATION & DIGITAL TECHNOLOGIES	TP	13
Data Science (Revamped)	INFORMATION & DIGITAL TECHNOLOGIES	NP	11
Digital Design & Development	INFORMATION & DIGITAL TECHNOLOGIES	RP	26
Financial Business Informatics	INFORMATION & DIGITAL TECHNOLOGIES	TP	13
Financial Technology	INFORMATION & DIGITAL TECHNOLOGIES	RP	26
Game Design & Development	INFORMATION & DIGITAL TECHNOLOGIES	TP	13
Game Development & Technology	INFORMATION & DIGITAL TECHNOLOGIES	NYP	13
Immersive Media	INFORMATION & DIGITAL TECHNOLOGIES	NP	16
Infocomm & Security	INFORMATION & DIGITAL TECHNOLOGIES	NYP	16
Infocomm Security Management	INFORMATION & DIGITAL TECHNOLOGIES	RP	24
Infocomm Security Management	INFORMATION & DIGITAL TECHNOLOGIES	SP	11
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	NYP	14
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	NP	15
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	RP	26
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	SP	14
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	TP	16
Maritime Business	MARITIME STUDIES	SP	17

Marine & Offshore Technology	MARITIME STUDIES	NP	18
Marine Engineering	MARITIME STUDIES	SP	21
Animation & Visual Effects (New!)	MEDIA & DESIGN	NYP	12
Apparel Design & Merchandising	MEDIA & DESIGN	TP	12
Arts & Theatre Management	MEDIA & DESIGN	RP	19
Chinese Media & Communication	MEDIA & DESIGN	NP	11
Communication Design	MEDIA & DESIGN	TP	16
Design (New!)	MEDIA & DESIGN	NP	14
Design for Games & Gamification	MEDIA & DESIGN	RP	18
Design for User Experience	MEDIA & DESIGN	RP	20
Digital Film & Television	MEDIA & DESIGN	TP	15
Digital Game Art & Design	MEDIA & DESIGN	NYP	12
Experiential Product & Interior Design (New!)	MEDIA & DESIGN	NYP	17
Film, Sound & Video	MEDIA & DESIGN	NP	12
Interaction Design	MEDIA & DESIGN	NYP	17
Interior Architecture & Design	MEDIA & DESIGN	TP	15
Interior Design	MEDIA & DESIGN	SP	15
Mass Communication	MEDIA & DESIGN	NP	10
Mass Communication	MEDIA & DESIGN	RP	16
Media, Arts & Design (New!)	MEDIA & DESIGN	SP	11
Media Post-Production (New!)	MEDIA & DESIGN	NP	13
Media Production & Design	MEDIA & DESIGN	RP	19
Motion Graphics Design	MEDIA & DESIGN	NYP	14
Product & Industrial Design	MEDIA & DESIGN	TP	17
Sonic Arts	MEDIA & DESIGN	RP	19
Visual Communication	MEDIA & DESIGN	NYP	15

COP indicates the ELR2B2 aggregate score (after deducting CCA bonus points) of the last student posted to the course(s) under the 2021 JAE. The 2021 JAE COP is to be used as a guide only.

2b(iii) Entry Criteria for Institutes of Technical Education (ITE)

The criteria for entry to the ITEs are based on ELB4, ELR1B3 or ELR2B2, i.e. English Language, best 4 subjects or 2 relevant subjects and 2 other best subjects. Successful posting to a course of choice would depend on the competition for available places. (See below for previous year cut-off points)

	ELB4, ELR1B3 & ELR2B2 : For ITE Higher Nitec Courses				
Aggregate Type	**ELB4-A**	**ELR1B3-B**		**ELR2B2-C**	
EL	English	**EL**	English		**EL**
B4	Best 4 other subjects	**R1**	Elementary Mathematics Additional Mathematics Principles of Accounts	Elementary Mathematics Additional Mathematics	1st Group of Relevant Subjects
		B3	Best 3 other subjects	Biology Biotechnology Chemistry Combined Science Computing/Computer Studies Design & Technology Electronics/Fundamental of Electronics Human & Social Biology Integrated Science Physics/Engineering Science Science (Chem, Bio) Science (Phy, Bio) Science (Phy, Chem)/Physical Science Science (Phy, Chem, Bio)	2nd Group of Relevant Subjects
				Best 2 other subjects excluding CCA	**B2**

PREVIOUS YEAR CUT-OFF POINTS FOR INSTITUTES OF TECHNICAL EDUCATION

https://www.ite.edu.sg/admissions/full-time-courses/nitec/entry-requirements

2021 Joint Intake Exercise (JIE 'N')

The "2021 JIE 'N' ITE Aggregate Point" in the table below shows the ITE aggregate score of the lowest ranked students who were admitted to these courses through the 2021 Joint Intake Exercise (JIE) 'N', based on best 4 GCE 'N' subjects including pre-requisites and bonus points. For the January 2021 intake, ITE offers a total of 44 full-time 2-year *Nitec* courses and 19 Traineeship courses. These aggregate scores are meant as a reference for applicants applying to these courses and do not constitute the admission points for subsequent admission exercises.

S/N	*Nitec* Course	College/ Campus	Indicative Cut-Off Points
1	Applied Food Science	ITE College East	8
2	Chemical Process Technology	ITE College East	9
3	Community Care & Social Services	ITE College East	14
4	Opticianry	ITE College East	14
5	Nursing	ITE College East	15
6	Business Administration (New!)	ITE College Central	4
		ITE College East	8
		ITE College West	6
7	Business Services	ITE College Central	7
		ITE College East	10
		ITE College West	9
8	Fitness Training	ITE College Central	9
		ITE College East	14
		ITE College West	17
9	Floristry	ITE College Central	14
10	Travel & Tourism Services	ITE College West	16
11	Beauty & Wellness	ITE College East	19
12	Hair Fashion & Design	ITE College East	16

S/N	*Nitec* Course	College/ Campus	Indicative Cut-Off Points
13	Logistics Services	ITE College East	10
14	Retail Services	ITE College Central	10
		ITE College East	12
		ITE College West	11
15	Architectural Technology	ITE College Central	14
16	Interior & Exhibition Design	ITE College Central	13
17	Fashion Apparel Production & Design	ITE College Central	10
18	Video Production	ITE College Central	8
19	Visual Communication	ITE College Central	13
20	Digital Animation	ITE College Central	9
21	Product Design	ITE College Central	15
22	Electronics, Computer Networking & Communication	ITE College Central	9
		ITE College East	15
		ITE College West	14
23	Electronics & Internet of Things (New!)	ITE College East	17
24	Infocomm Technology	ITE College Central	7
		ITE College East	17
		ITE College West	15
25	Microelectronics	ITE College Central	16
26	Web Applications	ITE College Central	8
		ITE College East	15
		ITE College West	16
27	Security Technology	ITE College West	12
28	Aerospace Avionics	ITE College Central	9
29	Aerospace Technology	ITE College Central	12
30	Electrical Technology (Lighting & Sound)	ITE College East	16
		ITE College West	15
31	Electrical Technology (Power & Control)	ITE College East	16
		ITE College West	15
32	Aerospace Machining Technology	ITE College Central	15
33	Digital & Precision Engineering	ITE College Central	17
34	Mechatronics & Robotics	ITE College Central	15
		ITE College West	15
35	Rapid Transit Technology	ITE College West	15
36	Automotive Technology (New!)	ITE College West	12
37	Built Environment (Mechanical & Electrical Services)	ITE College East	20
		ITE College West	16
38	Built Environment (Vertical Transportation)	ITE College East	17
39	Mechanical Technology	ITE College Central	13
		ITE College East	20
		ITE College West	14
40	Urban Greenery & Landscape	ITE College East	15
41	Hospitality Operations	ITE College West	7
42	Pastry & Baking	ITE College West	13
43	Western Culinary Arts	ITE College West	15
44	Asian Culinary Arts	ITE College West	16

https://www.ite.edu.sg/admissions/full-time-courses/higher-nitec-dpp/entry-requirements

2021 Joint Intake Exercise for Higher Nitec Courses

The "2021 JIE 'H' ELMAB3" in the table below shows the net ELMAB3 aggregate score of the lowest ranked students who were admitted to these courses through the 2021 Joint Intake Exercises JIE 'H' based on net **ELMAB3 including CCA bonus points**. These aggregate scores are meant as a reference for applicants applying to these courses and **do not** constitute the admission scores for subsequent admission exercises.

No	***Higher Nitec* Course** Duration: 2¼ Years (10 weeks of preparatory course followed by 2 years Higher Nitec training)	College/ Campus	Indicative Cut-Off Points	Entry Requirements
	APPLIED SCIENCES			A total of 19 points or less for English Language, Mathematics and 3 other subjects (ELMAB3) in the GCE 'N(A)' examinations For the ELMAB3 aggregate score, you must get: • Grade 1-4 in English Language • Grade 1-4 in Mathematics • Grade 1-5 in the 3 other subjects
1	Chemical Technology	ITE College East	8	
	ENGINEERING			
2	Civil & Structural Engineering Design	ITE College Central	9	
3	Electrical Engineering	ITE College East	14	
		ITE College West	14	
4	Electronics Engineering	ITE College Central	13	
		ITE College East	15	
		ITE College West	15	
5	Mechanical Engineering	ITE College Central	12	
		ITE College East	14	
		ITE College West	14	
6	Mechatronics Engineering	ITE College Central	12	
		ITE College West	14	
	INFO-COMMUNICATIONS TECHNOLOGY			
7	Business Information Systems	ITE College East	10	
8	Cyber & Network Security	ITE College East	10	
		ITE College West	10	
9	Games Art & Design	ITE College Central	9	
10	IT Applications Development	ITE College Central	10	
		ITE College East	11	
		ITE College West	11	
11	IT Systems & Networks	ITE College Central	10	
		ITE College East	11	
		ITE College West	12	
	BUSINESS & SERVICES			A total of 19 points or less for English Language, Mathematics and 3 other subjects (ELMAB3) in the GCE 'N(A)' examinations For the ELMAB3 aggregate score, you must get: • Grade 1-3 in English Language • Grade 1-4 in Mathematics • Grade 1-5
12	Accounting	ITE College Central	10	
		ITE College East	11	
		ITE College West	10	
13	Event Management	ITE College Central	10	
		ITE College East	11	
14	Financial Services	ITE College Central	9	
15	Hospitality Operations	ITE College West	11	
16	International Logistics	ITE College East	11	
17	Leisure & Travel Operations	ITE College West	11	
18	Service Management	ITE College West	11	

Enhanced Three-Year Curricular Structure for ITE Students from AY2002

https://www.ite.edu.sg/admissions/full-time-courses/nitec-and-3-year-higher-nitec

Starting with selected courses from Academic Year (AY) 2022, the Institute of Technical Education (ITE) will introduce a new enhanced three-year curricular structure leading directly to a *Higher Nitec* certification.

The enhanced curricular structure seeks to equip our ITE graduates with deeper industry-relevant skills for employment, as well as provide a stronger foundation for further education and skills upgrading over the course of their careers.

Under the enhanced curricular structure, the *Nitec* and *Higher Nitec* curricula will be streamlined into a three-year programme by removing overlapping competencies between related *Nitec* and *Higher Nitec* courses. In Year 1, students will undertake broad-based foundation courses exposing them to fundamental skills needed for the relevant industry sector. In Years 2 and 3, they will then take more specialised modules, leading to a *Higher Nitec* certification.

Below is the list of 3-year Higher Nitec courses under the first phase implementation of the enhanced curricular structure and their Minimum Entry Requirements (MERs).

3-Year *Higher Nitec* Course Offered in Jan 2022 Intake	Minimum Entry Requirements
Business & Services	
Higher Nitec in Accounting	3 GCE 'N' Passes (Grade A-D or 1 to 5) in English Language and two other subjects or 2 GCE 'O' Grades (Grade 1 to 8) in any two subjects
Higher Nitec in Sport Management	
Engineering and Info-Communications Technology	
Higher Nitec in Business Information Systems	3 GCE 'N' Passes (Grade A-D or 1 to 5) in Mathematics or Science and two other subjects or 2 GCE 'O' Grades (Grade 1 to 8) in any two subjects * Mobile Robotics and Smart Electrical Technology subjects can be used in lieu of Science for admission to these courses
Higher Nitec in Cyber & Network Security	
Higher Nitec in Electronics Engineering	
Higher Nitec in IT Applications Development	
Higher Nitec in IT Systems & Networks	
Higher Nitec in Security System Integration	Completed GCE 'N' Level or Completed GCE 'O' level

2c) Polytechnic Early Admissions Exercise (Poly EAE)

https://eae.polytechnic.edu.sg/

Poly EAE is an aptitude-based admissions exercise that allows students to apply for and receive conditional offers for admission to polytechnics prior to receiving their final grades. It allows the polytechnics greater flexibility to select and admit students based on their aptitudes and interests, apart from academic grades, thus allowing a wider range of talents to be recognised.

Poly EAE is open to graduating O-Level students and final-year Nitec and Higher Nitec students from the Institute of Technical Education.

All five polytechnics participate in Poly EAE:

- Nanyang Polytechnic
- Ngee Ann Polytechnic
- Republic Polytechnic
- Singapore Polytechnic
- Temasek Polytechnic

Selection criteria for Poly EAE

Each polytechnic course has its own selection criteria. In considering your application, the polytechnics will take into account your aptitudes for and interests in the specific courses that you are applying for. As part of the selection process, applicants may need to submit portfolios and undergo interviews and aptitude tests. Students with exceptional talents in areas such as leadership, community service, sports and arts may also be considered through Poly EAE.

2d) Polytechnic Foundation Programme (PFP)

https://pfp.polytechnic.edu.sg/PFP/index.html

The Polytechnic Foundation Programme (PFP) is a one-year practice-orientated programme to prepare polytechnic-bound N(A) students for entry into relevant Polytechnic diploma courses. PFP students are given provisional places in diploma programmes, subject to them passing all modules in the one-year PFP.

Eligibility

PFP caters to students who are amongst the top 15% (about 1500 places) of the Secondary 4 Normal (Academic) cohort and who wish to enter Polytechnic. Eligible N(A) students will be invited to apply for the Polytechnic Diploma courses of their choice.

Starting from the Secondary 4 Normal (Academic) cohort taking the 2019 GCE N-Level examinations, Secondary 4 Normal (Academic) students who obtain an **ELMAB3 (English Math, Best 3 Subjects) raw aggregate score of 12 points or better** (excluding CCA bonus points) at the GCE N-Level examination will be eligible to apply, provided they have also obtained the following:

For Courses in Group 1	Minimum Required Grades	PFP Course Clusters in Group 1
English Language Syllabus A	3	• Applied sciences • Built Environment • Business & Management • Engineering • Health Sciences • Information & Digital Technologies • Maritime Studies • Media and Design
Mathematics (Syllabus A) / Additional Mathematics	3	
One of the following relevant subjects: • Design and Technology • Food and Nutrition • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry)	3	
Any two other subjects excluding CCA	3	

For Courses in Group 2	Minimum Required Grades	PFP Course Clusters in Group 2
English Language Syllabus A	2	• Business & Management • Health Sciences • Humanities • Media and Design
Mathematics (Syllabus A) / Additional Mathematics	3	
One of the following relevant subjects: • Art • Literature in English • History • Combined Humanities • Geography • Principles of Accounts	3	
Any two other subjects excluding CCA	3	

2e) Direct-Entry-Scheme to Polytechnic Programme (DPP)

https://www.ite.edu.sg/admissions/full-time-courses/higher-nitec/direct-entry-scheme-to-polytechnic-programme

The DPP prepares Secondary 4 Normal (Academic) students for progression into selected polytechnic diploma courses via a two-year *Higher Nitec* course at ITE. DPP students who successfully complete their Higher Nitec courses and attain the required minimum qualifying *Higher Nitec* Grade Point Average (GPA) scores are guaranteed a place in one of the Polytechnic diploma courses that are mapped to their *Higher Nitec* courses.

Eligibility

Students must obtain an **ELMAB3 (English Math, Best 3 Subjects) raw aggregate score of 19 points or better** (excluding CCA bonus points) at the GCE N-Level examination to be eligible for the DPP. They must also obtain the following:

For *Higher Nitec* courses in: Applied Science, Engineering and Info-Communications Technology	**Minimum Required Grades**
English Language	4
Mathematics	4
Any three other subjects excluding CCA	5
For *Higher Nitec* courses in: Business & Services	**Minimum Required Grades**
English Language	3
Mathematics	4
Any three other subjects excluding CCA	5

2f) Direct School Admission – Junior College (DSA–JC)

https://www.moe.gov.sg/post-secondary/admissions/dsa

The DSA-JC allows students to seek admission to a junior college (JC) on the basis of talents and achievements that may not be demonstrated at the GCE 'O' Level Examination. The DSA-JC enables students to enter suitable academic and non-academic programmes in junior colleges that can develop the students in these areas.

Before applying for DSA-JC, students should consider their strengths and interests, and discuss with their parents/guardian. Students should shortlist junior colleges with DSA areas that match their strengths and/or interests. Students then apply to individual schools.

The selection process differs across schools, and for different DSA categories. Depending on the DSA area applied to, students may be asked to submit a portfolio showcasing their talents and achievements, secondary school results, CCA records, a personal statement and/or a character reference. Schools may also administer interviews, tests, or trials.

2g) ITE Early Admissions Exercise (ITE EAE)

https://www.moe.gov.sg/post-secondary/admissions/ite-eae

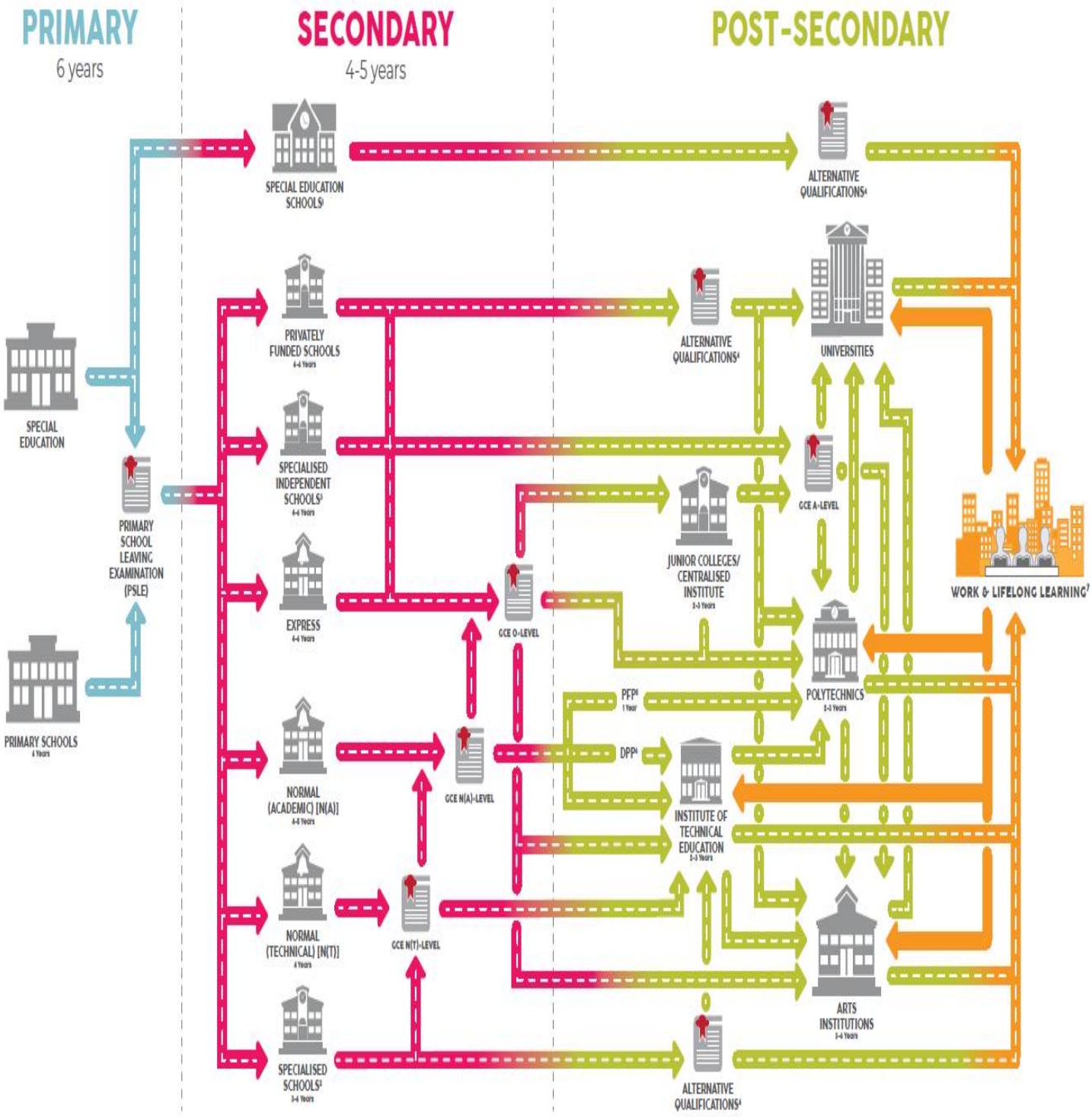
ITE EAE is an aptitude-based admissions exercise that allows students to apply and receive conditional offers for admission to ITE based on their aptitudes and interests, prior to receiving their final grades. It allows ITE greater flexibility to select and admit students based on criteria beyond academic grades, thus allowing a wider range of talents to be recognised.

As part of ITE EAE, graduating N-Level, O-Level and Nitec students are eligible to apply for admission to Nitec and Higher Nitec courses based on their sustained interests and demonstrated aptitudes relevant to the course.

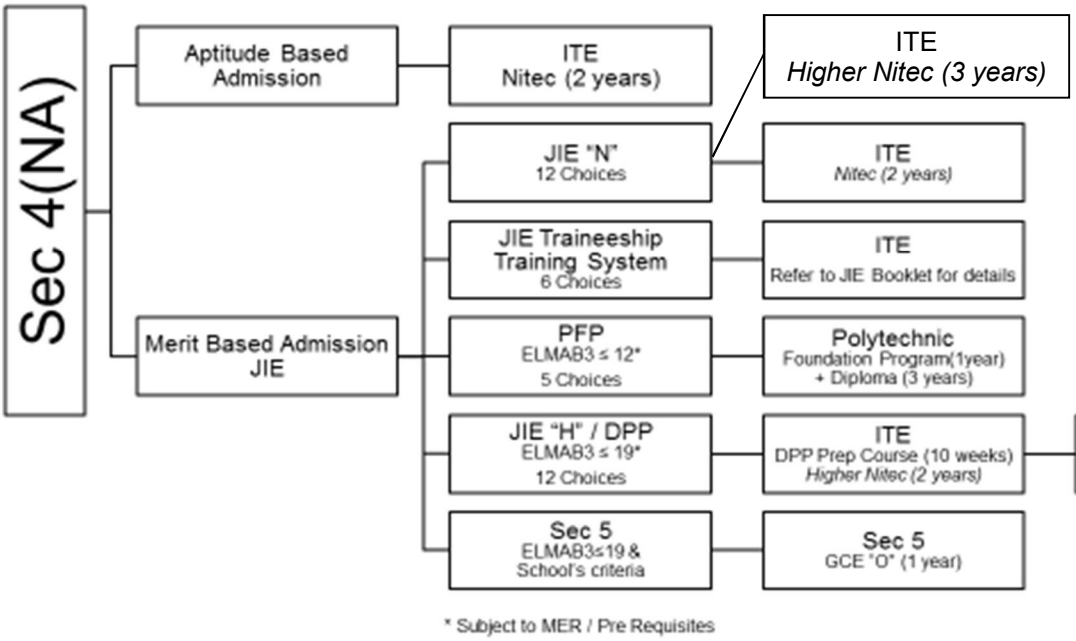
ITE will utilise various modes of assessment to identify course-specific aptitude and interest of applicants, such as portfolios, interviews and aptitude tests, where relevant and appropriate to the specific courses.

In considering students' applications, ITE will take into account their aptitudes for and interests in the specific courses that they are applying for. For example, ITE may consider a student's passion and talents in drawing and art when the student applies through ITE EAE for a Nitec or Higher Nitec course in Design. Students with other outstanding talents and achievements, such as in sports, arts, leadership, entrepreneurship and community service, may also be considered under ITE EAE.

Singapore's Education System: An Overview



Sec 4(NA) - PSEI Education Pathways



NA Grade	ITE Aggregate
1, 2	1
3	2
4	3
5	4
U	5

GCE "O"	Aggregate Point for PFP
A1 - B3	1
B4 - C6	2
D7	3

GCE "O"	Converted Grade for DPP, Sec 5, ITE
A1 - B3	1
B4 - C6	2
D7 – E8	3
F9	0

Course Prospectus: Information on Course Overview, Entry Requirements, Education Progression, Career Prospects etc.

ITE Course Prospectus for *Nitec* and *Higher Nitec* courses	**Joint Portal for the Polytechnics in Singapore**
Look under 'Progression Opportunities' for each *Nitec* course for progression to *Higher Nitec* and/or Polytechnic, subject to requirements	Search for courses offered by all the polytechnics categorized into nine clusters.

School Admission: Information on how to gain entry – How to Apply, Entry Requirements and FAQs

Admission Exercise	**ITE Early Admission Exercise [ITE-I]**	**Joint Intake Exercise JIE 'N'**	**Joint Intake Exercise JIE 'H'/DPP***	**Poly Foundation Programme [PFP]**
Admission Period	End May – Middle June	Upon release of N level results [Dec]	Upon release of N level results [Dec & Jan]	Upon release of O level results [Jan]
Information	Conditional offer based on aptitude and interests prior to receiving GCE N level examination results.	2021 JIE N Booklet Pg 10 – 14: Entry Requirements Pg 17: Computation of ITE Aggregate Points for NA Subjects	2021 JIE N Booklet JIE Pg 75: *Higher Nitec* Courses Offered Pg 68 - 74: Mapping of *Higher Nitec* courses to Poly Course	Refer to website for Overview, Eligibility, Application Procedure, Courses, FAQs etc
QR code to Access Website	EAE-I Website	2021 JIE N Booklet	DPP Website	PFP Website

Joint Polytechnic Admission Exercise [ITE to Polytechnic] https://jpae.polytechnic.edu.sg	JPAE Website
*DPP prepares students for progression into **selected** poly courses via a 2-year *Higher Nitec* course at ITE. Students who successfully complete their *Higher Nitec* course and **attain** the required minimum qualifying GPA are guaranteed a place in a polytechnic diploma course mapped to their *Higher Nitec* course.	

Requirements for Admission Programmes

Polytechnic Foundation Programme

Group 1

Subject	Minimum Required Grade
English Language [Syll A]	3
Math [Syll A/Additional]	3
One of the following subjects: ▪ Design & Technology ▪ Food & Nutrition ▪ Science (Chem/Bio) ▪ Science (Phy/Bio) ▪ Science (Phy/ Chem)	3
Any two other subjects excluding CCA	3

Group 2

Subject	Minimum Required Grade
English Language [Syll A]	2
Math [Syll A/Additional]	3
One of the following subjects: ▪ Art ▪ Literature in English ▪ History ▪ Combined Humanities ▪ Geography ▪ Principles of Accounts	3
Any two other subjects excluding CCA	3

Direct-entry-scheme to Polytechnic Programme [DPP]

For Applied Science, Engineering and Info-Communications Technology Courses:

GCE N-Level Subjects	Minimum Required Grade
English Language [Syll A]	4
Math [Syll A/Additional]	4
Any other 3 subjects Excluding CCA	5

For Business and Services Courses:

GCE N-Level Subjects	Minimum Required Grade
English Language [Syll A]	3
Math [Syll A/Additional]	4
Any other 3 subjects Excluding CCA	5