Compassvale Secondary School
Information Booklet for 2019 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 qualifying for the subjects they wish to study. It contains the following information:

1. 2019 Secondary 3 Subject Combinations
a) Tentative Subject Combinations Offered
b) Subject Demands and Pre-requisites
c) Subject Synopses

2. Post-Secondary Education
a) The GCE 'A' Level Curriculum
b) Entry Criteria for Junior Colleges and 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)

Offer of Subject Combinations

1. In offering the various subject combinations, the school aims to
   - Optimise choices and flexibility as far as possible for all students
   - Cater to students with different interests and abilities
   - Prepare students for future possible educational pathways

2. The actual subject combinations/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 (Staff/teaching resources, timetable constraint etc) as situation changes from year to year.

Choosing Subject Combinations and Option Exercise

1. Students should choose their options 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. Students are strongly encouraged to seek advice from teachers and discuss options with their parents.
3. Students will be asked to exercise their **Subject Combination Options** 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 (weighted, overall year-end results in Sec 2), followed by
   - Choices of subject combinations, subject to meeting pre-requisites for relevant subjects
2. Students who fail to submit their options or secure any of his 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 (subject combinations)	24 May 2018
2	Briefing for parents	26 May 2018 (Sec 2 Meet-the-Form Teacher session)
3	Briefing for students (option exercise)	End of Term 4
4	Submission of Subject Combination Option form	By 31 October 2018, 12 noon
5	Release of outcome of allocation of subject combination	7 November 2018, 12 noon
6	Closing date for appeals for change of subject combination	14 November 2018, 12 noon
7	Release of outcome for appeals	21 November 2018, 12 noon

1. SECONDARY 3 SUBJECT COMBINATIONS

1a) Tentative Subject Combinations Offered

Express Course

Subjects	8 subjects combinations	7 subjects combinations		
Subject 1	English Language			
Subject 2	Mother Tongue Language			
Subject 3	Mathematics			
Subject 4	Humanities (Social Studies. Geography Elective) or Humanities (SS, History) or Humanities (SS, Literature)			
Subject 5	Additional Math	Additional Math	Additional Math	Additional Math or Geography or History
Subject 6	Physics	Science (Phy/Chem)	Science(Phy/Chem) or Science (Chem/Bio)	Science(Phy/Chem) or Science (Chem/Bio)
Subject 7	Chemistry	Electronics	Geography or History	Design &Technology (D&T) or Food & Nutrition (F&N) or Art
Subject 8	Biology or Design & Technology (D&T) or Electronics or Geography or History			

Normal Course

Subjects	Normal (Academic)	Normal (Technical)
Subject 1	English Language*	English Language*
Subject 2	Mother Tongue Language*	Mother Tongue Language*
Subject 3	Mathematics*	Mathematics*
Subject 4	Science(Phy/Chem)* or Science(Chem/Bio)*	Science*
Subject 5	Humanities (SS, Geography) or Humanities (SS, History)	Computer Applications (CPA)
Subject 6	Design and Technology (D&T) or Food and Nutrition (F&N) or Additional Mathematics or Art	Elements of Business Skills (EBS)

** Possible higher level out-of-stream subjects*

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.

<table>
<tr><th rowspan="2">'O' Level Subjects</th><th colspan="2">Eligibility Criteria</th></tr>
<tr><th>SBB (Subject-Based Banding) Students
(Students who have taken the higher level subject since Sec 1 or 2)</th><th>Non-SBB Students
(Students who have not taken the higher level subject in Sec 1 or 2)</th></tr>
<tr><td>EL
MTL
Science</td><td rowspan="2">• Met promotion criteria
• Pass the specific subject at EXP Level
• ≥ 60% in the overall average</td><td>• Met promotion criteria
• ≥ 75% in the specific subject at N(A) Level
• ≥ 60% in the overall average</td></tr>
<tr><td>Mathematics</td><td>• Met promotion criteria
• ≥ 70% in the specific subject at N(A) Level
• ≥ 60% in the overall average</td></tr>
</table>

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 S3, they may be asked to switch back to the subject at 'N(A)' level.

2. There is no cap on the number of 'O' level subjects. However, students who wish to register for more than 3 'O' level 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.

3. Students may register for duplicate subjects for GCE 'N' and 'O' Level exam at Sec 4 (i.e. to sit for the 'O' level subject at 'N' level as well). However, they are strongly encouraged to register for the 'O' level subjects only instead of duplicate subjects unless they are not confident of doing well in the 'O' level subjects. Only one of the duplicate subjects (i.e. either 'O' or 'N' level subject) can be used to compute aggregate points for admission to post-secondary education institutions.

   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.

4. As a norm, students can only register for up to a maximum of 8 subjects for the GCE 'N' 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.

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

Progression Opportunities for N(T) Stuents

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

'O' or '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 Express or 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

The 'O' or '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 S3, they may be asked to switch to the subject at 'N(A)' or 'N(T)' level.

2. There is no cap on the number of 'O' or 'N(A)' level subjects. However, students who wish to register for more than 3 'O' and 'N(A)' level subjects combined will need MOE's approval. Based on our student profile, eligible students are advised to keep to at most two 'O'/'N(A)' level subjects in order to cope well with the greater challenges. Subject teachers' recommendation will also be taken into consideration.

3. Students may register for duplicate subjects for GCE 'N' and 'O' Level exam at Sec 4 (i.e. to sit for the 'O'/'N(A)' level subject at 'N(T)' level as well). However, they are strongly encouraged to register for the 'O'/'N(A)' level subjects only instead of duplicate subjects unless they are not confident of doing well in the 'O'/'N(A)' level subjects. Only one of the duplicate subjects (i.e. either 'O'/'N(A)' or 'N(T)' level subject) can be used to compute aggregate points for admission to ITE.

Grade Conversion

GCE 'O' Level Grade	GCE 'N(A)' Level Grade	GCE 'N(T)' Level Grade	ITE Aggregate Point
A1 – C6	1, 2	A	1
D7, E8	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

4. As a norm, students can only register for up to a maximum of 7 subjects for the GCE 'N' and 'O' 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.

1b) Subject Demands and Pre-requisites

Subject	Levels applicable	Demands	Pre-requisites (based on Sec 2 final overall results)
1. Additional Mathematics	O & N(A)	Students should have an understanding of advanced Mathematical concepts and apply them in problem solving.	At least B3 in Mathematics A*pplicable to N(A) only*
2. 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 A2 in Science and good overall results
3. Chemistry	O	Students should have an interest in the study of basic characteristics of substances such as their structure, composition, properties, as well as the reactive characteristics and the different ways in which they react or combine with other substances.	At least A2 in Science and good overall results
4. Physics	O	Students should have an interest in the scientific study of matter and energy, and the effect that they have on each other in the fields of electricity, heat, light, mechanics, and sound.	At least A2 in Science and good overall results
5. Applied Subject (AS): Electronics	O	AS-Electronics features a range of learning experiences designed to promote understanding of electronics and develop values and attitudes related to engineering. The focus of the syllabus is on the application of knowledge in electronics components and circuit theories to design and build electronics systems that can solve daily problems. Interested students should preferably have a strong interest in Mathematics and Science and enjoy hands-on activities as these are pre-requisites required for the development of problem solving and systems thinking skills through the engineering design process.	At least B3 in Mathematics and Science and good overall results.
6. 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.	-
7. 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.	-
8. Humanities (Social Studies, Geography)	O & N(A)	Students who have an interest in Geography. The syllabus requires the student to demonstrate relevant factual knowledge and knowledge of relevant fieldwork techniques. Students are required to apply concepts learnt and make judgements/evaluations as well as interpret and evaluate geographical data given.	-
9. Humanities (Social Studies, History)	O & N(A)	Students who have interest in History. The syllabus requires the student to interact with historical sources and develop skills of evaluating the validity of sources based on a given context. Students are required to inquire, analyse and evaluate the evidence of the past before reconstructing the past in a methodical way in an explanation.	-

Subject	Levels applicable	Demands	Pre-requisites (based on Sec 2 final overall results)
10. Humanities (Social Studies, Literature)	O	Students should have a keen interest in the reading and study of literary texts (from these genres: poetry, prose & drama). 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 English Language and B3 in Literature.
11. Geography	O	Students would need to demonstrate ability to interact directly with fieldwork data and apply skills of evaluating the validity and limitations of fieldwork evidence and of the conclusions reached. They would also need to be able to evaluate content knowledge and present their arguments and analysis as well as display balanced perspective in response to various stimulus materials that include topographic and other maps, photographs , diagrams and texts.	At least B3 in Geography
12. History	O	Students would need to demonstrate ability to interact directly with historical sources as part of the historical inquiry process and able to apply skills of evaluating the validity of sources based on a given context. They would also need to be able to analyse and evaluates the evidence of the past before reconstructing the past in a methodical way in an explanation.	At least B3 in History
13. Design & Technology	O & N(A)	Students should have the ability to design, communicate and show craftsmanship. They will study electronics, mechanisms and structures.	-
14. Food & Nutrition	O & N(A)	Students study nutrition and food science and how they impact on our health. A keen interest in Biology would be useful.	-
15. Art	O & N(A)	Students should have analytical skills, powers of observation and able to apply thinking and IT skills to art techniques.	-
16. Music	O	Students would need to understand and appreciate music and its role in historical, social & cultural context, apply musical knowledge and skills in a variety of contexts, analyse stylistic characteristics of diverse musical genres and traditions, communicate musical genres and expression with a sense of purpose and audience and evaluate and reflect to demonstrate critical and creative thinking. **Note**: The subject is taken outside curriculum time at a Music Centre (one session 3 hours per week)	At least a Grade 4 Pass in Practical and Theory/Practical Musicianship
17. Science	N(T)	Students should have an interest in the study of measurements, mechanics of moving objects, thermal physics, electricity and magnetism, chemical changes, acids, bases and salts and health and diseases. The Option topics are petrochemical industry, electronics and communications and physics of automobiles.	-

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	44%
	2	Structured questions	2 h 30 mins	56%
N(A)	1	Structured questions	1 h 45 mins	50%
	2	Structured questions	1 h 45 mins	50%

2. 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 mins	50%
	3	Science Practical Assessment	1 h 50 min	20%

3. 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 mins	50%
	3	Science Practical Assessment	1 h 50 min	20%

4. 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 mins	50%
	3	Science Practical Assessment	1 h 50 min	20%

5. 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	2 hr	70%
		Section B: Long questions		
	2	Application-Specific Electronic Project	32 hr	30%

6. 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 mins	32.5%
	3	Structured and Free Response (Chemistry)	1 h 15 mins	32.5%
	4	Structured and Free Response (Biology)	1 h 15 mins	32.5%
	5	Practical Test	1 h 30 mins	15%
N(A)	1	Multiple Choice (Physics)	1 h 15 mins	20%
	2	Structured (Physics)		30%
	3	Multiple Choice (Chemistry)	1 h 15 mins	20%
	4	Structured (Chemistry)		30%
	5	Multiple Choice (Biology)	1 h 15 mins	20%
	6	Structured (Biology)		30%

7. *Humanities (Social Studies, History/ Geography Electives)*

Course Content (Social Studies)	Course Content (History Elective)	Course Content (Geography Elective)
❖ 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	❖ 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 45mins	50%
	2	Structured Questions (Geography Elective)	1h 40mins	50%
	3	Source-Based Case Study and Structured Essay Questions (History Elective)	1h 40mins	50%
N(A)	1	Source-Based Case Study and Structured-Response Question (Social Studies)	1h 45mins	50%
	2	Structured Questions (Geography Elective)	1h 40mins	50%
	3	Source-Based Case Study and Structured-Essay Questions (History Elective)	1h 40mins	50%

8. *Humanities (Social Studies, Literature Elective)*

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

Examination Requirements

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

9. *Humanities (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 40mins	50%
	2	Structured Questions	1h 30mins	50%

10. *Humanities (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 40mins	50%
	2	Source-Based Case Study and Structured-Essay Question	1h 40mins	50%

11. Design & Technology

Course Content

- ❖ Design
- ❖ Technological Areas
- ❖ Materials and Practical processes

Examination Requirements

Level	Paper	Details	Duration	Weighting
O	1	Written Examination	2 h	30%
	2	Design Project	~	70%
N(A)	1	Written Examination	1 h 30 mins	30%
	2	Design Project	~	70%

12. Food and Nutrition

Course Content
- ❖ Nutrition and Health
- ❖ Food Choices
- ❖ Food Science

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 mins	40%
	2	Coursework	~	60%

13. Art

Course Content (Normal Academic)
- ❖ 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%

14. Music

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

Examination Requirements

Level	Component	Details	Duration	Weighting
O	Music Studies	Written Examination	2 h	50%
	Performing			
	Performing (major)	Recital with Reflection Notes	10 - 15 min	30%
	Performing (minor)		5 – 10 min	20%
	Music Writing			
	Music Writing (major)	Written Exam	40 min	10%
	Music Writing (major and minor)	Coursework	N.A.	20%

15. NT Science

Course Content
- ❖ Gadgets Work Wonders (II)
- ❖ Food Matters
- ❖ Wonders of My Body (II)

Examination Requirements

Level	Paper	Details	Duration	Weighting
NT	1	Multiple Choice	1 h	40%
	2	Short-answer or Structured	1 h 15 min	60%

16. 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 mins	35%
	3	Lab-based – Spreadsheets and Media Computing	1 h 30 mins	35%

17. NT Elements of Business Skills

Course Content
- ❖ Understanding Business Activities
- ❖ Business in selected Service Industries
- ❖ Basic Marketing
- ❖ Customer Relations

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 Paper – Short Response and Structured Questions	1 h 30 mins	60%
	2	Coursework – School-Based Assessment (Research on a business in a service industry)	20 h	40%

2. POST-SECONDARY SCHOOL EDUCATION

2a) GCE 'A' Level Curriculum

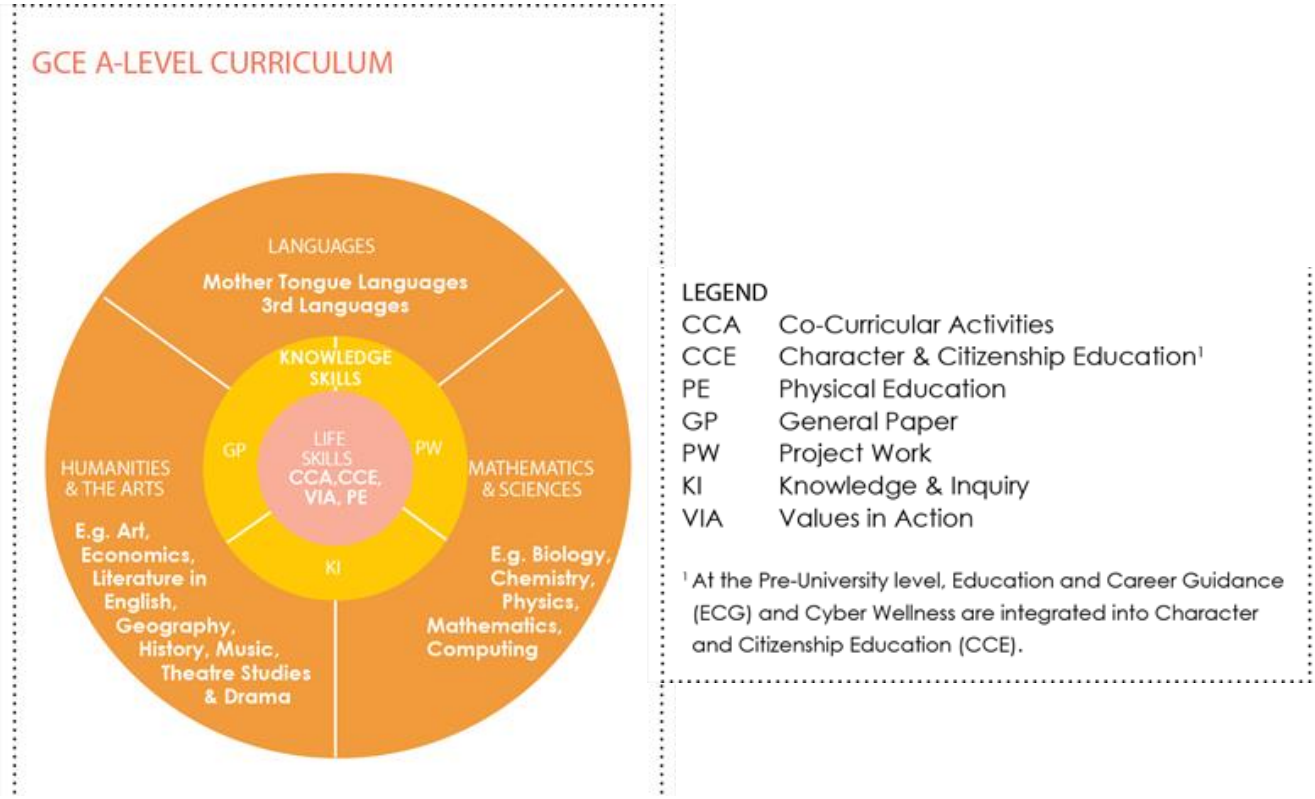
https://www.moe.gov.sg/education/pre-university/gce-a-level-curriculum

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 and use information and be able to express their thoughts and ideas clearly and effectively. It comprises skills-based subjects.

Content-based Subjects
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 criterion for JC entry is 20 points for L1R5 i.e. English Language 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 CCA and Religious Knowledge)
	Relevant Subject 5	Any other GCE 'O' Level subjects (except CCA and 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 note that the bonus points are used for ranking of students during the posting procedure. They are not taken into consideration in determining whether a pupil is eligible for a specific course.

Millennia Institute

The criteria for Centralised Institutes are 20 points for L1R4 i.e. English Language 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 or CCA (except Religious Knowledge)
	Relevant Subject 4	Any other GCE 'O' Level subjects or CCA (except Religious Knowledge)

PREVIOUS CUT-OFF POINTS FOR JUNIOR COLLEGES

S/No	Junior College	2018 Cut-Off Point	
		Arts	Science/IB
1	Anderson JC (merging with Serangoon JC in 2019)	12	12
2	Anglo-Chinese JC	10	9
3	Anglo-Chinese School (Independent), ACSI	N.A	6
4	Catholic JC	14	15
5	Eunoia JC	11	10
6	Hwa Chong Institution	5	5
7	Meridian JC (merging with Tampines JC in 2019)	13	14
8	Nanyang JC	8	7
9	National JC	9	8
10	Pioneer JC (merging with Jurong JC in 2019)	17	14
11	Raffles Institution	5	5
12	St. Andrew's JC	12	11
13	St. Joseph's Institution, SJI	N.A	8
14	Temasek JC	11	10
15	Victoria JC	8	6
16	Yishun JC (merging with Innova JC in 2019)	20	20
17	Innova JC (merging with Yishun JC in 2019)	N.A*	N.A*
18	Jurong JC (merging with Pioneer JC in 2019)	N.A*	N.A*
19	Serangoon JC (merging with Anderson JC in 2019)	N.A*	N.A*
20	Tampines JC (merging with Meridian JC in 2019)	N.A*	N.A*

2bii) Entry Criteria for Polytechnics

http://www.polytechnic.edu.sg/polyguide

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)

<table>
<tr><td colspan="2"></td><td colspan="4">ELR2B2 : For Polytechnic Courses</td></tr>
<tr><td colspan="2">Course Group</td><td>Humanities/ Media and Design – Related Courses (ELR2B2-A)</td><td>Business-Related Courses (ELR2B2-B)</td><td>Science & Technology Courses (ELR2B2-C)</td><td>Design Courses (ELR2B2-D)</td></tr>
<tr><td colspan="2">EL</td><td colspan="4">English</td></tr>
<tr><td rowspan="2">R2</td><td>1st Group of Relevant Subjects</td><td>Art/Art & Design
Business Studies
Combined Humanities
Commerce
Commercial Studies
Economics
Geography
Higher Art
Higher Music
History
Intro to Enterprise Development
Literature in English
Literature in Chinese
Literature in Malay
Literature in Tamil
Media Studies (English)
Media Studies (Chinese)
Music</td><td colspan="3">Elementary Mathematics
Additional Mathematics</td></tr>
<tr><td>2nd Group of Relevant</td><td>Music
Elementary Mathematics
Additional Mathematics 2nd Group of Relevant Subjects
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
Intro to Enterprise Development
Literature in English
Literature in Chinese
Literature in Malay
Literature in Tamil
Malay
Media Studies (English)
Media Studies (Chinese)
Music
Principles of Accounts
Tamil</td><td>Art / Art & Design
Business Studies
Combined Humanities
Commerce
Commercial Studies
Economics
Geography
Higher Art
Higher Music
History
Intro to Enterprise Development
Literature in English
Literature in Chinese
Literature in Malay
Literature in Tamil
Media Studies (English)
Media Studies (Chinese)
Music
Principles of Accounts</td><td>Addn Combined Science
Additional Science
Biology
Biotechnology
Chemistry
Combined Science
Computer Studies
Creative 3D Animation
Design & Technology
Engineering Science
Food & Nutrition
Fundamentals of Electronics
General Science
Human & Social Biology
Integrated Science
Physics
Physical Science
Science (Chem, Bio)
Science (Phy, Bio)
Science (Phy, Chem)
Science (Phy, Chem, Bio)</td><td>Addn Combined Science
Additional Science
Art / Art & Design
Biology
Biotechnology
Chemistry
Combined Science
Computer Studies
Creative 3D Animation
Design & Technology
Design Studies
Engineering Science
Food & Nutrition
Fundamentals of Electronics
General Science
Higher Art
Human & Social Biology
Integrated Science
Media Studies (English)
Media Studies (Chinese)
Physics
Physical Science
Science (Chem, Bio)
Science (Phy, Bio)
Science (Phy, Chem)
Science (Phy, Chem, Bio)</td></tr>
<tr><td colspan="2">B2</td><td colspan="3">Best 2 other subjects excluding CCA</td></tr>
</table>

CCA Bonus Point System

Applicants 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	2 points
	Good	1 point

PREVIOUS CUT-OFF POINTS FOR POLYTECHNICS

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

COURSE_TITLE	JAE_COURSE_CLUSTER	POLY	JAE_ELR2B2
Biomedical Science	APPLIED SCIENCES	NP	7
Biomedical Science	APPLIED SCIENCES	SP	7
Molecular Biotechnology	APPLIED SCIENCES	NP	8
Veterinary Bioscience	APPLIED SCIENCES	NP	8
Biomedical Science	APPLIED SCIENCES	TP	9
Biotechnology	APPLIED SCIENCES	SP	9
Nutrition, Health and Wellness	APPLIED SCIENCES	SP	9
Pharmacy Science	APPLIED SCIENCES	NP	9
Veterinary Technology	APPLIED SCIENCES	TP	9
Applied Chemistry	APPLIED SCIENCES	SP	10
Biotechnology	APPLIED SCIENCES	TP	10
Molecular Biotechnology	APPLIED SCIENCES	NYP	10
Pharmaceutical Science	APPLIED SCIENCES	TP	11
Pharmaceutical Sciences	APPLIED SCIENCES	NYP	11
Chemical & Biomolecular Engineering	APPLIED SCIENCES	NP	12
Medicinal Chemistry	APPLIED SCIENCES	NYP	12
Biomedical Sciences	APPLIED SCIENCES	RP	13
Chemical Engineering	APPLIED SCIENCES	SP	13
Food Science and Technology	APPLIED SCIENCES	SP	13
Perfumery and Cosmetic Science	APPLIED SCIENCES	SP	13
Biomedical Engineering	APPLIED SCIENCES	TP	14
Food Science & Nutrition	APPLIED SCIENCES	NYP	14
Applied Food Science & Nutrition	APPLIED SCIENCES	TP	15
Biologics & Process Technology	APPLIED SCIENCES	NYP	15
Chemical Engineering	APPLIED SCIENCES	TP	15
Environmental & Water Technology	APPLIED SCIENCES	NP	15
Marine Science and Aquaculture	APPLIED SCIENCES	RP	15
Baking & Culinary Science	APPLIED SCIENCES	TP	16
Biotechnology	APPLIED SCIENCES	RP	16
Chemical & Pharmaceutical Technology	APPLIED SCIENCES	NYP	16
Chemical & Green Technology	APPLIED SCIENCES	NYP	17
Landscape Design & Horticulture	APPLIED SCIENCES	NP	17
Pharmaceutical Sciences	APPLIED SCIENCES	RP	18
Environmental Science	APPLIED SCIENCES	RP	26
Materials Science	APPLIED SCIENCES	RP	26
Architecture	BUILT ENVIRONMENT	SP	13
Hotel & Leisure Facilities Management	BUILT ENVIRONMENT	NP	13
Facilities Management	BUILT ENVIRONMENT	SP	15
Integrated Events and Project Management	BUILT ENVIRONMENT	SP	15
Sustainable Urban Design & Engineering	BUILT ENVIRONMENT	NP	15
Landscape Architecture	BUILT ENVIRONMENT	SP	16
Real Estate Business	BUILT ENVIRONMENT	NP	16
Integrated Facility Management	BUILT ENVIRONMENT	TP	18
Civil Engineering with Business	BUILT ENVIRONMENT	SP	20
Sustainable Architectural Design	BUILT ENVIRONMENT	NYP	20
Green Building & Sustainability	BUILT ENVIRONMENT	TP	24
Green Building Energy Management	BUILT ENVIRONMENT	RP	26
International Trade & Business	BUSINESS & MANAGEMENT	NP	10
Accountancy	BUSINESS & MANAGEMENT	NP	11
Arts Business Management	BUSINESS & MANAGEMENT	NP	11
Banking & Financial Services	BUSINESS & MANAGEMENT	NP	11
Business Studies	BUSINESS & MANAGEMENT	NP	11
Tourism & Resort Management	BUSINESS & MANAGEMENT	NP	11
Business & Social Enterprise	BUSINESS & MANAGEMENT	NP	12
Tourism and Resort Management	BUSINESS & MANAGEMENT	SP	12
Accountancy	BUSINESS & MANAGEMENT	SP	13

COURSE_TITLE	JAE_COURSE_CLUSTER	POLY	JAE_ELR2B2
Aviation Management & Services	BUSINESS & MANAGEMENT	TP	13
Banking and Finance	BUSINESS & MANAGEMENT	SP	13
Business Administration	BUSINESS & MANAGEMENT	SP	13
Financial Informatics	BUSINESS & MANAGEMENT	SP	13
Human Resource Management with Psychology	BUSINESS & MANAGEMENT	SP	13
Law & Management	BUSINESS & MANAGEMENT	TP	13
Accountancy & Finance	BUSINESS & MANAGEMENT	NYP	14
Accounting & Finance	BUSINESS & MANAGEMENT	TP	14
Banking & Finance	BUSINESS & MANAGEMENT	NYP	14
Communications & Media Management	BUSINESS & MANAGEMENT	TP	14
Mass Media Management	BUSINESS & MANAGEMENT	NYP	14
Business Information Technology	BUSINESS & MANAGEMENT	TP	15
Financial Informatics	BUSINESS & MANAGEMENT	NYP	15
Hospitality & Tourism Management	BUSINESS & MANAGEMENT	TP	15
Culinary & Catering Management	BUSINESS & MANAGEMENT	TP	16
Financial Business Informatics	BUSINESS & MANAGEMENT	TP	16
Hospitality & Tourism Management	BUSINESS & MANAGEMENT	NYP	16
Sport & Wellness Management	BUSINESS & MANAGEMENT	NYP	16
Business Informatics	BUSINESS & MANAGEMENT	NYP	17
Business Management	BUSINESS & MANAGEMENT	NYP	17
Business/Logistics & Operations Management/Marketing	BUSINESS & MANAGEMENT	TP	17
Food & Beverage Business	BUSINESS & MANAGEMENT	NYP	17
Human Resource Management with Psychology	BUSINESS & MANAGEMENT	RP	17
Leisure & Events Management	BUSINESS & MANAGEMENT	TP	18
Marketing	BUSINESS & MANAGEMENT	NYP	18
Aviation Management	BUSINESS & MANAGEMENT	RP	19
Consumer Behaviour and Research	BUSINESS & MANAGEMENT	RP	20
Retail Management	BUSINESS & MANAGEMENT	TP	20
Business Process & Systems Engineering	BUSINESS & MANAGEMENT	TP	21
Social Enterprise Management	BUSINESS & MANAGEMENT	RP	21
Hotel and Hospitality Management	BUSINESS & MANAGEMENT	RP	22
Supply Chain Management	BUSINESS & MANAGEMENT	RP	22
Wellness and Hospitality Business	BUSINESS & MANAGEMENT	RP	23
Industrial and Operations Management	BUSINESS & MANAGEMENT	RP	24
Outdoor and Adventure Learning	BUSINESS & MANAGEMENT	RP	25
Customer Experience Management with Business	BUSINESS & MANAGEMENT	RP	26
Integrated Events Management	BUSINESS & MANAGEMENT	RP	26
Restaurant and Culinary Operations	BUSINESS & MANAGEMENT	RP	26
Sports and Leisure Management	BUSINESS & MANAGEMENT	RP	26
Engineering Science	ENGINEERING	NP	10
Aerospace Engineering	ENGINEERING	TP	12
Biomedical Engineering	ENGINEERING	NP	12
Mechatronics and Robotics	ENGINEERING	SP	12
Aeronautical Engineering	ENGINEERING	SP	13
Aerospace Technology	ENGINEERING	NP	13
Audio-visual Technology	ENGINEERING	NP	13
Bioengineering	ENGINEERING	SP	13
Aerospace Electronics	ENGINEERING	SP	14
Aerospace Electronics	ENGINEERING	TP	14
Aeronautical & Aerospace Technology	ENGINEERING	NYP	15
Aerospace Electronics	ENGINEERING	NP	15
Aerospace Systems & Management	ENGINEERING	NYP	15
Biomedical Engineering	ENGINEERING	NYP	15
Computer Engineering	ENGINEERING	SP	15
Engineering with Business	ENGINEERING	SP	15
Mechanical Engineering	ENGINEERING	SP	15
Clean Energy Management	ENGINEERING	NP	16
Common Engineering Programme	ENGINEERING	SP	16

COURSE_TITLE	JAE_COURSE_CLUSTER	POLY	JAE_ELR2B2
Engineering with Business Management Programme	ENGINEERING	NP	16
Electronic & Computer Engineering	ENGINEERING	NP	17
Mechanical Engineering	ENGINEERING	NP	17
Nanotechnology & Materials Science	ENGINEERING	NYP	17
Computer Engineering	ENGINEERING	TP	18
Electrical and Electronic Engineering	ENGINEERING	SP	18
Engineering With Business	ENGINEERING	NYP	18
Automation & Mechatronic Systems	ENGINEERING	NP	19
Engineering Systems	ENGINEERING	SP	19
Robotics & Mechatronics	ENGINEERING	NYP	19
Electrical Engineering	ENGINEERING	NP	20
Energy Systems and Management	ENGINEERING	SP	20
Aerospace / Electrical / Electronics Programme	ENGINEERING	NYP	21
Mechatronics/ Aerospace Engineering	ENGINEERING	TP	21
Aerospace Engineering	ENGINEERING	RP	22
Clean Energy	ENGINEERING	TP	22
Common Engineering Programme	ENGINEERING	TP	22
Electrical & Electronic Engineering Programme	ENGINEERING	TP	24
Aerospace Avionics	ENGINEERING	RP	25
Engineering Design with Business	ENGINEERING	RP	25
Aerospace / Mechatronics Programme	ENGINEERING	NYP	26
Common Engineering Programme	ENGINEERING	NYP	26
Common Engineering Programme	ENGINEERING	RP	26
Digital & Precision Engineering	ENGINEERING	NYP	26
Electrical and Electronic Engineering	ENGINEERING	RP	26
Electrical Engineering With Eco-Design	ENGINEERING	NYP	26
Electronic Systems	ENGINEERING	NYP	26
Engineering Systems and Management	ENGINEERING	RP	26
Multimedia & Infocomm Technology	ENGINEERING	NYP	26
Optometry	HEALTH SCIENCES	NP	13
Optometry	HEALTH SCIENCES	SP	13
Oral Health Therapy	HEALTH SCIENCES	NYP	13
Social Sciences (Social Work)	HEALTH SCIENCES	NYP	14
Sports Coaching	HEALTH SCIENCES	RP	14
Sports and Exercise Sciences	HEALTH SCIENCES	RP	19
Health Management and Promotion	HEALTH SCIENCES	RP	26
Health Sciences (Nursing)	HEALTH SCIENCES	NP	26
Health Services Management	HEALTH SCIENCES	RP	26
Nursing	HEALTH SCIENCES	NYP	26
Psychology Studies	HUMANITIES	NP	8
Psychology Studies	HUMANITIES	TP	10
Creative Writing for Television and New Media	HUMANITIES	SP	12
Child Psychology & Early Education	HUMANITIES	NP	13
Applied Drama and Psychology	HUMANITIES	SP	14
Chinese Studies	HUMANITIES	NP	14
Early Childhood Education	HUMANITIES	NP	16
Early Childhood Studies	HUMANITIES	TP	16
Gerontological Management Studies	HUMANITIES	TP	16
Tamil Studies with Early Education	HUMANITIES	NP	21
Cyber Security & Forensics	INFORMATION & DIGITAL TECHNOLOGIES	NYP	10
Infocomm Security Management	INFORMATION & DIGITAL TECHNOLOGIES	SP	10
Information Security & Forensics	INFORMATION & DIGITAL TECHNOLOGIES	NP	10
Cybersecurity & Digital Forensics	INFORMATION & DIGITAL TECHNOLOGIES	TP	11
Network Systems & Security	INFORMATION & DIGITAL TECHNOLOGIES	NP	11
Music and Audio Technology	INFORMATION & DIGITAL TECHNOLOGIES	SP	12
Big Data Management & Governance	INFORMATION & DIGITAL TECHNOLOGIES	TP	13
Financial Informatics	INFORMATION & DIGITAL TECHNOLOGIES	NP	13
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	NP	13
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	SP	13

COURSE_TITLE	JAE_COURSE_CLUSTER	POLY	JAE_ELR2B2
Business Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	SP	14
Game Development & Technology	INFORMATION & DIGITAL TECHNOLOGIES	NYP	14
Immersive Media & Game Design	INFORMATION & DIGITAL TECHNOLOGIES	NP	14
Business Intelligence & Analytics	INFORMATION & DIGITAL TECHNOLOGIES	TP	16
Business Intelligence & Analytics	INFORMATION & DIGITAL TECHNOLOGIES	NYP	17
Digital Visual Effects	INFORMATION & DIGITAL TECHNOLOGIES	NYP	17
Game Design & Development	INFORMATION & DIGITAL TECHNOLOGIES	TP	18
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	NYP	18
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	TP	18
Infocomm and Security	INFORMATION & DIGITAL TECHNOLOGIES	NYP	19
Infocomm Security Management	INFORMATION & DIGITAL TECHNOLOGIES	RP	21
Business Applications	INFORMATION & DIGITAL TECHNOLOGIES	RP	26
Business Information Systems	INFORMATION & DIGITAL TECHNOLOGIES	RP	26
Information Technology	INFORMATION & DIGITAL TECHNOLOGIES	RP	26
Mobile Software Development	INFORMATION & DIGITAL TECHNOLOGIES	RP	26
Maritime Business	MARITIME STUDIES	SP	18
Marine & Offshore Technology	MARITIME STUDIES	NP	20
Marine Engineering	MARITIME STUDIES	SP	20
Digital Animation	MEDIA & DESIGN	SP	10
Film, Sound & Video	MEDIA & DESIGN	NP	10
Mass Communication	MEDIA & DESIGN	NP	10
Visual Communication and Media Design	MEDIA & DESIGN	SP	10
Animation	MEDIA & DESIGN	NYP	11
Animation & 3D Arts	MEDIA & DESIGN	NP	11
Games Design and Development	MEDIA & DESIGN	SP	11
Advertising & Public Relations	MEDIA & DESIGN	NP	13
Digital Film & Television	MEDIA & DESIGN	TP	14
Digital Game Art & Design	MEDIA & DESIGN	NYP	14
Interior Design	MEDIA & DESIGN	SP	14
Media and Communication	MEDIA & DESIGN	SP	14
Visual Effects	MEDIA & DESIGN	NP	14
Visual Effects and Motion Graphics	MEDIA & DESIGN	SP	14
Chinese Media & Communication	MEDIA & DESIGN	NP	15
Communication Design	MEDIA & DESIGN	TP	16
Apparel Design & Merchandising	MEDIA & DESIGN	TP	17
Product Design & Innovation	MEDIA & DESIGN	NP	17
Experience and Product Design	MEDIA & DESIGN	SP	18
Interior Architecture & Design	MEDIA & DESIGN	TP	18
Mass Communication	MEDIA & DESIGN	RP	18
3D Interactive Media Technology	MEDIA & DESIGN	TP	19
Environment Design	MEDIA & DESIGN	TP	19
Motion Graphics & Broadcast Design	MEDIA & DESIGN	NYP	19
Product & Industrial Design	MEDIA & DESIGN	TP	19
Visual Communication	MEDIA & DESIGN	NYP	19
Game Design	MEDIA & DESIGN	RP	20
Industrial Design	MEDIA & DESIGN	NYP	20
Interaction Design	MEDIA & DESIGN	NYP	20
Sonic Arts	MEDIA & DESIGN	RP	20
Spatial Design	MEDIA & DESIGN	NYP	20
Arts and Theatre Management	MEDIA & DESIGN	RP	21
Media Production and Design	MEDIA & DESIGN	RP	21
Design for User Experience	MEDIA & DESIGN	RP	22
Interactive and Digital Media	MEDIA & DESIGN	RP	24

COP indicates the ELR2B2 aggregate score (after deducting CCA bonus points) of the last student posted to the course(s) under the 2018 JAE. The 2018 JAE COP is to be used as a guide only.

2biii) 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)

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

PREVIOUS CUT-OFF POINTS FOR INSTITUTES OF TECHNICAL EDUCATION

https://www.ite.edu.sg/wps/portal/fts_courses_by_level?cat=Nitec&title=Nitec

December 2017 Joint Intake Exercise (JIE 'N')

The "2017 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 2017 Joint Intake Exercise (JIE) 'N', based on best 4 GCE 'N' subjects including pre-requisites and bonus points. 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	17
3	Community Care & Social Services	ITE College East	16
4	Nursing	ITE College East	15
5	Opticianry	ITE College East	10
6	Business Services	ITE College Central	8
		ITE College East	11
		ITE College West	8
7	Finance Services	ITE College Central	7
		ITE College East	9
		ITE College West	8
8	Fitness Training	ITE College Central	12
		ITE College East	14
		ITE College West	15
9	Floristry	ITE College Central	9
10	Travel & Tourism Services	ITE College West	16
11	Beauty & Wellness	ITE College East	18
12	Hair Services (Hair Fashion and Design)	ITE College East	20

S/N	*Nitec* Course	College/ Campus	Indicative Cut-Off Points
13	Logistics Services	ITE College East	11
14	Retail Services	ITE College Central	10
		ITE College West	10
15	Fashion Apparel Production & Design	ITE College Central	12
16	Visual Effects	ITE College Central	15
17	Space Design (Architecture)	ITE College Central	13
18	Space Design (Interior & Exhibition)	ITE College Central	14
19	Visual Communication	ITE College Central	14
20	Digital Animation	ITE College Central	14
21	Product Design	ITE College Central	20
22	Digital Audio & Video Production	ITE College East	9
		ITE College West	8
23	Electronics, Computer Networking & Communication	ITE College Central	10
		ITE College East	16
		ITE College West	16
24	Infocomm Technology	ITE College Central	9
		ITE College East	15
		ITE College West	11
25	Microelectronics	ITE College Central	16
26	Web Applications	ITE College Central	10
		ITE College East	Nil
		ITE College West	13
27	Security Technology	ITE CollegeWest	14
28	Aerospace Avionics	ITE College Central	6
29	Aerospace Technology	ITE College Central	11
30	Electrical Technology (Lighting & Sound)	ITE College East	12
		ITE College West	11
31	Electrical Technology (Power & Control)	ITE College East	15
		ITE College West	17
32	Aerospace Machining Technology	ITE College Central	7
33	Digital & Precision Engineering	ITE College Central	Nil
34	Rapid Transit Technology	ITE College West	14
35	Automotive Technology (Heavy Vehicles)	ITE College West	14
36	Automotive Technology (Light Vehicles)	ITE College West	13
37	Facility Technology (Airconditioning & Refrigeration)	ITE College East	20
38	Facility Technology (Landscaping Services)	ITE College East	20
39	Facility Technology (Mechanical & Electrical Services)	ITE College East	20
		ITE College West	18
40	Facility Technology (Vertical Transportation)	ITE College East	20
41	Mechanical Technology	ITE College Central	15
		ITE College East	20
		ITE College West	16
42	Mechatronics	ITE College Central	14
		ITE College West	20
43	Food & Beverage Operations	ITE College West	10
44	Pastry & Baking	ITE College West	17
45	Western Culinary Arts	ITE College West	14
46	Asian Culinary Arts	ITE College West	18

December 2017 Joint Intake Exercise for Higher Nitec Courses

The "2017 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 2017 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.

S/N	*Higher Nitec* Course	College/ Campus	Indicative Cut-Off Points
1	Chemical Technology	ITE College East	8
2	Civil & Structural Engineering Design	ITE College Central	10
3	Electrical Engineering	ITE College East	13
		ITE College Central	14
4	Electronics Engineering	ITE College Central	13
		ITE College East	14
		ITE College West	14
5	Mechanical Engineering	ITE College Central	11
		ITE College East	13
		ITE College West	14
6	Mechatronics Engineering	ITE College Central	12
		ITE College West	13
7	Business Information	ITE College East	10
8	Cyber Network Security	ITE College East	10
		ITE College West	10
9	Games Art & Design	ITE College Central	10
10	IT Applications Development	ITE College Central	-
		ITE College East	-
		ITE College West	-
11	IT Systems & Networks	ITE College Central	11
		ITE College East	11
		ITE College West	12
12	Accounting	ITE College Central	9
		ITE College East	11
		ITE College West	11
13	Banking Services	ITE College Central	10
14	Event Management	ITE College Central	10
		ITE College East	-
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

2c) Polytechnic Early Admissions Exercise (Poly EAE)

https://www.moe.gov.sg/admissions/direct-admissions/eae/

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 2018 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 • Engineering • Health Sciences • Information and Digital Technologies • Built Environment • Business Management • Media and Design • Maritime Studies
Mathematics (Syllabus A/ Additional)	3	
One of the following relevant subjects: • Science (Physics, Chemistry) • Science (Physics, Biology) • Science (Chemistry, Biology) • Food and Nutrition • Design and Technology	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 • Media and Design • Humanities • Health Sciences
Mathematics (Syllabus A/ Additional)	3	
One of the following relevant subjects: • Principles of Accounts • Literature in English • History • Combined Humanities • Geography • Art	3	
Any two other subjects excluding CCA	3	

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

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:

Applied Science, Engineering and Info-Communications Technology *Higher Nitec* DES courses	**Minimum Required Grades**
English Language	4
Mathematics	4
Any three other subjects excluding CCA	5
Business and Services / Hospitality *Higher Nitec* DES courses	**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/admissions/direct-admissions/dsa-jc

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/admissions/direct-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 your application, ITE will take into account your aptitudes for and interests in the specific courses that you are applying for. For example, ITE may consider your passion and talents in drawing and art when you apply 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.