

Tak Sun Secondary School

Class of 2020

Introduction of Senior Secondary
Elective Subjects

*(including Mathematics Extended Modules I & II,
and Applied Learning Courses)*



Jan 2017

Contents

	<u>Page no.</u>
I. Introduction of Senior Secondary Curriculum	
○ Learning goals	3
○ Curriculum Framework	3
○ Multiple Pathways for Senior Secondary Graduates	3
II. Introduction of TSSS Senior Secondary Curriculum	
(a) Curriculum Framework	4
(b) Elective Subjects	
○ Biology	5
○ Chemistry	6
○ Physics	7
○ Chinese History (中國歷史)	8
○ Economics	10
○ Geography	12
○ History (歷史)	14
○ Business, Accounting and Financial Studies	16
○ Information and Communication Technology (modules C and D)	17
○ Physical Education (體育)	18
○ Visual Arts	19
(c) Mathematics Extended Modules I and II	21
(d) Applied Learning Courses	23
III. Basic Admission Requirements	24

I. Introduction of Senior Secondary Curriculum

(a) Learning Goals

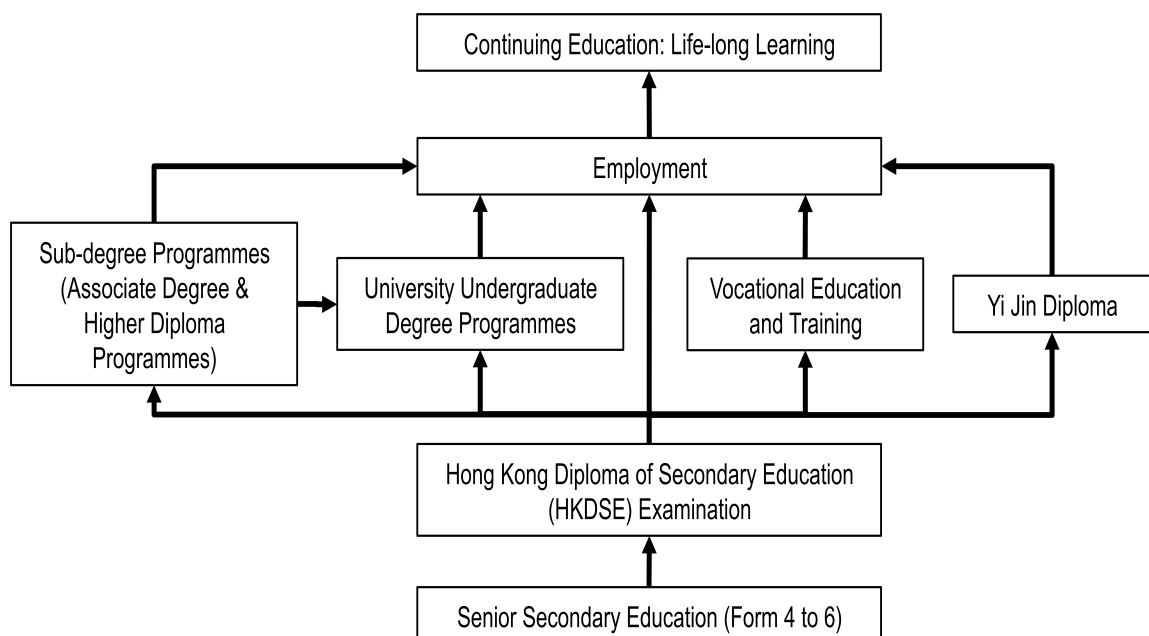
After the completion of senior secondary curriculum, it is expected students:

- to be obliterate and trilingual with adequate proficiency;
- to acquire a broad knowledge base, and be able to understand contemporary issues, that may impact on their daily life at personal, community, national and global levels;
- to be an informed and responsible citizen with a sense of global and national identity;
- to respect pluralism of cultures and views, and be a critical, reflective and independent thinker,
- to acquire IT and other skills as necessary for being a life-long learner;
- to understand their own career academic aspirations and develop positive attitudes towards work and learning;
- to lead a healthy life style with active participation in aesthetic and physical activities.

(b) Curriculum Framework

4 Core Subjects:		Elective Subjects:		Other Learning Experiences (OLE)
Chinese Language English Language Mathematics Liberal Studies	+	2/3 elective subjects chosen from 11 elective subjects and Applied Learning Courses	+	Moral and Civic Education, Community Service, Aesthetic Development, Physical Development and Career-related Experiences

(c) Multiple Pathways for Senior Secondary Graduates



II. Introduction of TSSS Senior Secondary Curriculum

(a) Curriculum Framework (tentative)

	Form 4 (2017/18)	Form 5 (2018/19)	Form 6 (2019/20)
Core Subjects	English Language	English Language	English Language
	Chinese Language	Chinese Language	Chinese Language
	Mathematics (Compulsory Part/ Compulsory Part + M1/ Compulsory Part + M2)	Mathematics (Compulsory Part/ Compulsory Part + M1/ Compulsory Part + M2)	Mathematics (Compulsory Part/ Compulsory Part + M1/ Compulsory Part + M2)
	Liberal Studies	Liberal Studies	Liberal Studies
Elective Subjects	2 Elective Subjects/ 3 Elective Subjects	1 Elective Subject +ApL/ 2 Elective Subjects + ApL/ 2 Elective Subjects/ 3 Elective Subjects	1 Elective Subject +ApL/ 2 Elective Subjects + ApL/ 2 Elective Subjects/ 3 Elective Subjects
Other Learning Experiences	Religious Studies & Ethics	Religious Studies & Ethics	Religious Studies & Ethics
	Physical Education	Physical Education	Physical Education
	Aesthetic & Career Education		

Note: M1: Mathematics Extended Module 1 (Calculus and Statistics) M2: Mathematics Extended Module 2 (Algebra and Calculus)

ApL: Applied Learning Course

Elective Subjects* to be offered: (tentative)

- Biology
- Chemistry
- Physics
- Chinese History (medium of instruction: Chinese)
- Economics
- Geography
- History (medium of instruction: Chinese)
- Business, Accounting and Financial Studies
- Information and Communication Technology
 - Module C: Multimedia Production and Web Site Development
 - Module D: Software Development
- DSE Physical Education (medium of instruction: Chinese)
- DSE Visual Arts
- Applied Learning Course: (to be offered in Form 5)
 - Film and Video Studies (by VTC)
 - Fashion and Image Design (by VTC)
 - Interior Design (by VTC)
 - Aviation Studies (by HKU SPACE)
 - Practical Psychology (by HKBU SCE)

(b) Elective Subjects

Biology



Curriculum Objectives

The broad aims of the Biology Curriculum are to enable students to:

- develop and maintain an interest in biology, a sense of wonder and curiosity about the living world, and a respect for all living things and the environment;
- construct and apply knowledge of biology, understand the nature of science in biology-related contexts, and appreciate the relationships between biological science and other disciplines;
- develop the ability to make scientific inquiries; think scientifically, critically and creatively; and solve biology-related problems individually and collaboratively;
- understand the language of science and communicate ideas and views on biology-related issues;
- be aware of the social, ethical, economic, environmental and technological implications of biology, and be able to make informed decisions and judgments on biology-related issues; and
- develop an attitude of responsible citizenship, and a commitment to promote personal and community health.

Curriculum Contents

Compulsory Part		Elective Part	
I. Cells and Molecules of Life		V. Human Physiology: Regulation and Control	
II. Genetics and Evolution		VI. Applied Ecology	
III. Organisms and Environment			
IV. Health and Diseases			

Assessments

Component	Outline	Weighting	Duration
Public Examination	Paper 1 Compulsory part	60%	2.5 hours
	Paper 2 Elective Part (A choice of two out of four elective topics)	20%	1 hour
School-based Assessment	Practical Related Tasks	20%	

Abilities or Skills required to study this subject

- strong interest in study of biology
- communicate ideas and views effectively with others, using the language of science
- plan and conduct scientific investigations individually or collaboratively
- strong ability to think scientifically and creatively
- strong memorization of biological vocabularies

Further Study and Career Opportunities

- Biology related subjects in the universities of Hong Kong and other countries, e.g. Chinese medicine, medicine, health sciences, pharmacy, dentistry, nursing, biochemistry, biotechnology and etc.
- Career opportunities – Doctors, pharmacists, nurses, teachers, research works in universities or private companies, analytical works in Government Laboratory and private testing laboratories.

For further enquiries about this subject, please contact Mr. Ben Chan.

Chemistry

Curriculum Objectives

- The overarching aim of the Chemistry Curriculum is to provide chemistry-related learning experiences for students to develop scientific literacy, so that they can participate actively in our rapidly changing knowledge-based society, prepare for further studies or careers in fields related to chemistry, and become lifelong learners in science and technology.



Curriculum Contents

Compulsory part	Elective part
<ul style="list-style-type: none">• <i>Planet Earth</i>• <i>Microscopic world I</i>• <i>Metals</i>• <i>Acids and bases</i>• <i>Fossil fuels and carbon compounds</i>• <i>Microscopic world II</i>• <i>Redox reactions, chemical cells and electrolysis</i>• <i>Chemical reactions and energy</i>• <i>Rate of reaction</i>• <i>Chemical equilibrium</i>• <i>Chemistry of carbon compounds</i>• <i>Patterns in the chemical world</i>	<ul style="list-style-type: none">• <i>Industrial chemistry</i>• <i>Analytical chemistry</i>

Assessments

Component	Weighting	Duration	
Public Examination	Paper 1 Compulsory part	60%	2.5 hours
	Paper 2 Elective part	20%	1 hour
School-based assessment (SBA) Practical work <i>Volumetric analysis ; Qualitative analysis ; Experiment</i>	20%		

Abilities and Skills required to study this subject

- Open-minded about abstract concepts
- Good memory
- Fair at calculation

Further Study and Career Opportunities

- Chemistry related subjects in the universities of Hong Kong and other countries, e.g. Chinese medicine, medicine, health sciences, pharmacy, dentistry, nursing, biology, chemistry.
- Career opportunities – Doctors, pharmacists, nurses, teachers, research works in universities or private companies, analytical works in Government Laboratory and private testing laboratories.

For further enquiries about this subject, please contact Mr. Derek Lam.

Physics

Curriculum Objectives

- The main aim of the Physics Curriculum is to provide physics-related learning experiences for students to develop scientific literacy, so that they can participate actively in our rapidly changing knowledge-based society, prepare for further studies or careers in fields related to physics, and become lifelong learners in science and technology.



Curriculum Contents

Compulsory Part	Elective Part
1. Heat and Gases 2. Force and Motion 3. Wave Motion 4. Electricity and Magnetism 5. Radioactivity and Nuclear Energy	1. Astronomy and Space Science 2. Energy and Use of Energy

Assessments

Component	Outline	Weighting	Duration
Public Examination	Paper 1 Compulsory Part	60%	2.5 hours
	Paper 2 Elective Part	20%	1 hour
School-based Assessment	Over the two years of S5 and S6, there should be at least two marks for experiment (12%) and one mark for investigative study or an experiment with a detailed report (8%).	20%	

Abilities or Skills required to study this subject

- Be proficient with mathematics.
- Showing a strong curiosity of how things work.
- Showing an ability of logical reasoning.
- Showing a strong ability of applying concepts in problem-solving.

Further Study and Career Opportunities

- Students who study Physics have an advantage in pursuing some subjects in tertiary education such as Physics, Engineering, Information Technology, Surveying, Optometry and Physiotherapy.
- For Physics students, there is a wide range of career opportunities such as education, scientific research, engineering, aviation and meteorology.

For further enquiries about this subject, please contact Mr. Johnson Chan.

中國歷史科

課程目標

課程以初中歷史與文化為基礎，銜接高等教育階段的中國歷史本科課程，為修讀的學生提供多元化的中國歷史學習經歷，使他們在初中學習的基礎上，進一步豐富中國歷史的知識，提升研習歷史的能力，為終身學習和未來發展作好準備。



內容及結構

- 在課程內容方面，以政治史及文化史兩大領域為主，是本課程「歷代發展」及「歷史專題」兩部分的基礎。
- 「歷代發展」部分突破以朝代為依歸的設計框架，著重突出不同「歷史時期」的主要特點，以銜接高等教育的「通史式」中國歷史課程。
- 「歷史專題」部分則在更廣闊的層面上從文化、地理、人物、制度、宗教及性別等方面，讓學生認識中國歷史的多元面貌，從而為日後修習高等教育的各種專門歷史作好準備。

具體教學安排：

1. 必修部分：「歷代發展」部份，當中包括：
 - 高中一年級全年：甲部：「上古至十九世紀中葉」；
 - 高中二年級上學期：乙部：「十九世紀中葉至二十世紀末」；
2. 選修部分：「歷史專題」部分，以主題式設計，擬定教授一選修單元
 - 高中二年級下學期：制度與政治演變

(專題旨在讓學生從田制、兵制與科舉制的發展，洞察制度與政治演變的關係。田制、兵制及科舉制度是歷史上三種重要制度，與政局的變化關係極為密切。)

評核

卷別	時間	結構	比重
試卷一 (必修部分：「歷代發展」)	2小時	<ul style="list-style-type: none">- 必答題，涵蓋甲、乙部佔全卷40分。 (作答時間：1小時15分鐘)- 其餘「甲部」、「乙部」各設3題，考生須分別各選答1題，佔全卷50分。 (作答時間：1小時)- 全卷共答3題。	70%
試卷二 (選修部分：「歷史專題」)	1½小時	<ul style="list-style-type: none">- 每1單元各設3題。每題總分為25分。- 學生從所選單元選答2題。- 全卷共答2題完卷。	30%

須具備的學習能力及態度

- 對中國歷史有興趣學生；良好語文及表達能力能
- 愛分析愛思考，且具有良好組織、歸納及推論能力的學生。

升學及就業出路

- 本課程要求學生能對事物作多角度的探究及分析，並具備研習歷史的正面態度和技巧，以便在日後修習大專院校課程打好穩固的學術基礎。此外，歷史研習亦能讓學生學習處世方式。這種經驗對學生將來服務社會有很大的幫助。
- 選修本科可選擇的本地升學途徑：

院校	選修科目
各大專院校開設的本科課程	1. 歷史 2. 中國語言及文學 3. 新聞 4. 法律 5. 哲學 6. 人類 7. 社會 8. 經濟 9. 心理 10. 文化研究 等
各大專及專上學院開設的副學位課程	1. 應用社會科學 2. 康樂及休閒事務管理 3. 旅遊、會展及節目管理 等

- 選修本科可從事的職業
 1. 文物保育
 2. 文化旅遊
 3. 文物考古
 4. 檔案管理
 5. 出版編輯
 6. 教育事務

同學如對本科有任何疑問，可與張耀倫老師查詢。

Economics



Curriculum Objectives

The aims of the Economics curriculum are to enable students to:

- develop an interest in exploring human behaviour and social issues through an economic perspective;
- understand the world in which they live through mastery of basic economic knowledge;
- enhance their general intellectual capacity for life-long learning, through developing their capacities in economic analysis, so that they possess the skills necessary for reasoning about issues and making rational choices.

Curriculum Contents

Compulsory Part		
Branches	Topic	Topic Name
Microeconomics:	(A)	Basic Economics Concepts
	(B)	Firms and Production
	(C)	Market and Price
	(D)	Competition and Market Structure
	(E)	Efficiency, Equity and the Role of Government
Macroeconomics:	(F)	Measurement of Economics Performance
	(G)	National Income Determination and Price Level
	(H)	Money and Banking
	(I)	Macroeconomic Problems and Policies
	(J)	International Trade and Finance
Elective Part		
Part II		Extension of Trade Theory, Economic Growth and Development

Assessment

Component	Part	Weighting	Duration
Public Examination	Paper 1 (multiple-choice questions)	30%	1 hour
	Paper 2 (conventional paper) Part 1: Compulsory Part Part 2: Elective Part (a choice of one out of two elective)	70%	2 hours 15 mins

Abilities or Skills required to study this subject

- Students are expected to possess a good command of English Language, analytical mindset and awareness towards current issues.
- Memorizing economic theories / concepts and regular practicing on analyzing different social issues / situations are required to perform well in the subject.
- Numerical skills & data interpretation skills are required as students are required to interpret data presented in different formats such as tables, charts, graphs etc.

Future Study & Career Opportunities

- This curriculum will provide a useful preparation not just for studying economics but also for other university studies such as management, financial studies, law, environment studies, and public and social administration. The perspectives, knowledge base and skills that are emphasized in senior secondary Economics curriculum can broaden the range of further study choices for students.

For further enquiries about this subject, please contact Mr. Vincent Lee.

Geography



Curriculum Objectives

The aims of this curriculum are to enable students to:

- understand the Earth they inhabit, and enable them to recognise and interpret, from a spatial perspective, the arrangement of phenomena and features on Earth, the processes at work, the interactions that occur, the changes that result, and the issues and management responses that arise;
- develop the general intellectual capacity and generic skills needed for lifelong learning through geographical enquiry, and the ability to apply these in life situations;
- appreciate the wonder, interdependence and fragility of the local and global environment, and the importance of promoting sustainable development; and
- develop a sense of citizenship, a global outlook, and readiness to take action for the betterment of society, the nation and the world.

Curriculum Contents

Compulsory Part		Elective Part
Part 1	<u>Living with Our Physical Environment</u> <ul style="list-style-type: none">- Opportunity and Risks - is it rational to live in hazard-prone areas?- Managing River and Coastal Environments: A continuing challenge	Dynamic Earth: The Building of Hong Kong Regional Study of Zhujiang (Pearl River) Delta
Part 2	<u>Facing Changes in the Human Environment</u> <ul style="list-style-type: none">- Changing Industrial Location - How and why does it change over space and time?- Building a Sustainable City - Are environmental conservation and urban development mutually exclusive?	
Part 3	<u>Confronting Global Challenges</u> <ul style="list-style-type: none">- Combating Famine - is technology a panacea for food shortage?- Disappearing Green Canopy - Who should pay for the massive deforestation in rainforest regions?- Global Warming - is it fact or fiction?	

Abilities or Skills required to study this subject

- strong interest in study geography;
- have a sense of curiosity about peoples, places and environments;
- able to organize, present compare, analyse, synthesise and evaluate from different data (map, photos, diagram etc); and
- able to use appropriate texts and illustrations (such as maps, diagrams, models, sketches, and graphs) to present and organise information and data

Assessments

- Public examination (100%) - paper 1 (70%, 2½ hours, MC questions, Data-based questions and Short essay), paper 2 (30%, 1 hour and 15 minutes, Data-based questions and Short essay) (This is the public examination format until 2017-18, Question types and weighting in Paper 1 and Paper 2 will be rearranged from 2019, and a compulsory fieldwork-based question in Paper 1 will be introduced from 2019)
- No SBA

Further Study and Career Opportunities

- Geography related subjects in the universities of Hong Kong and other countries, e.g. Geography, Art, Social sciences, Environmental science, Hotel and tourism management and BBA.
- Geography graduates are equipped to move in several career directions, often combining their knowledge of human and environmental activity to work in areas such as transport planning, resources and environmental management, tourism and recreational, logistic, surveying and, at a broader level, administration and business.

For further enquiries about this subject, please contact Mr. Clement Ng.

歷史科

課程目標

學生應能建構知識並了解：

- 基本的歷史概念，如因果關係、演變與延續、不同事件的異同；
- 陳述和詮釋歷史的不同方式，藉以表達不同的觀點與角度；
- 本身所屬國家和其他國家的信念、經驗及行為，明瞭三者如何影響當今世界的發展；
- 二十世紀本地、國家、亞洲，以及世界發生的主要事件/運動間的相互關係；
- 塑造今日世界的主要歷史發展及趨勢。

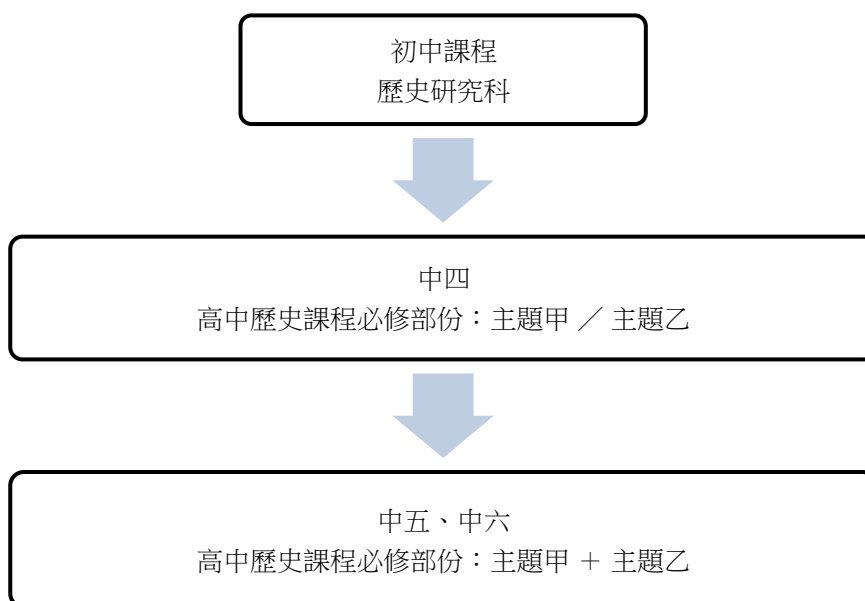
課程架構及組織

必修部分
引言：現代世界的孕育
主題甲：二十世紀亞洲的現代化與蛻變
主題乙：二十世紀世界的衝突與合作

課程評核

公開考試：100%

歷史科進修階梯



大學課程選擇 (部份)

院校 / 科目	最低入學要求 (歷史科)
香港大學文學院 ● 歷史科	中學文憑試 - 歷史科：第3等
香港中文大學文學院 ● 歷史科、文化研究、文化管理等	中學文憑試 - 歷史科：第3等
香港浸會大學社會科學院 ● 歷史〔榮譽〕文學士 ● 中國研究社會科學學士 (榮譽) - 歷史主修	中學文憑試 - 歷史科：第2等
嶺南大學文學院 ● 歷史〔榮譽〕文學士	中學文憑試 - 歷史科：第2等

甚麼學生適合修讀？

- 對歷史、政治、社會文化和時事有興趣，有較強觀察能力和思考能力。

學生需要甚麼特別能力？

- 本課程適合專注力較高的學生修讀。此外，歷史科學生須具備良好的語文能力；具備良好的閱讀及表達能力；擅長議論文表達技巧；具備良好的分析、組織、歸納及推論能力。

本校歷史科畢業生進修出路如何？

- 本校歷史科學生，畢業後選擇的進修出路包括：修讀本地或海外大學的歷史、法律等課程。

同學如對本科有任何疑問，可與鍾寶源老師(Mr. Dennis Chung)查詢。

Business, Accounting and Financial Studies

Curriculum Objectives

To enable students to:

- acquire a common body of business knowledge, including accounting and management;
- make effective business decision in the dynamic business environment;
- develop generic skills in team-building, communication, problem-solving which can be transferred to different domains; and
- explore different aspects of business to prepare for life, for learning and for employment.



Curriculum Contents

Compulsory Part	Elective Part
<ul style="list-style-type: none">○ <i>Business environment</i>○ <i>Introduction to Management</i>○ <i>Introduction to Accounting</i>○ <i>Basics of Personal Financial Management</i>	<ul style="list-style-type: none">○ <i>Elective A: Accounting module</i>

Assessments

Component		Weighting	Duration
Public Examination	Paper 1 Compulsory part	40%	1¼ hours
	Elective part: Paper 2A Accounting module	60%	2¼ hours

Abilities and Skills Required

Studying BAFS will require students'

- Numerical skills
- Analytical skills
- Reading skills
- Self-learning abilities

Further Study and Career Opportunities

Prepare students with essential business knowledge and skills for:

- Further Studies: Higher education/tertiary studies in business subjects such as accountancy, business administration, management, marketing, finance
- Career Opportunities: Accounting sector (auditors, financial controllers, accountants); Finance sector (financial analysts, financial planners); Management sector (executive officer, general managers) or Education sector (teachers, academics, educators)

For further enquiries about this subject, please contact Mr. Patrick Tong or Mr. Expo Kwan.

Information and Communication Technology



Curriculum Objectives

- Equip students with problem-solving and communication skills, and encourage them to think critically and creatively through ICT
- Develop students into competent, effective, discriminating, ethical, and confident users of ICT
- Provide students with opportunities to appreciate the impact of ICT on our knowledge-based society and nurture in them positive values and attitudes towards this area

Curriculum Contents

Compulsory Part	Elective Part
<ul style="list-style-type: none">○ <i>Information Processing</i>○ <i>Computer System Fundamentals</i>○ <i>Internet and its Applications</i>○ <i>Basic Programming Concepts</i>○ <i>Social Implications</i>	<ul style="list-style-type: none">○ <i>Elective C: Multimedia Production and Web Site Development</i>○ <i>Elective D: Software Development</i>

Assessments

Component		Weighting	Duration
Public Examination	Paper 1 Compulsory part	55%	2 hours
	Paper 2 Elective part (Choose one only)	25%	1 hour 30 minutes
	2A Databases elective,		
	2B Data Communications and Networking elective,		
2C Multimedia Production and Web Site Development elective, OR			
2D Software Development elective			
School-based Assessment (SBA)		20%	

Abilities or Skills required to study this subject

- Students must have interest and be willing to learn by borrowing books from the library and try different software tools independently at home. There are many examination questions relating to real-life experience.
- Students should have good analytical skills as there are many questions require students to study a case and solve the problem found in the case.
- Good result in mathematics is not a must but certainly help.

Further Study and Career Opportunities

- Further Studies
 - Computer Science, Computer Engineering, Information & System Management, Information Engineering, Engineering Subjects
 - ICT skill is also essential to all business and engineering related courses
- Career Opportunities
 - Software developer
 - Multimedia designer
 - IT engineer & related industries

For further enquiries about this subject, please contact Mr. Eric Tang.

體育科

課程內容及結構

理論部分：

第一部分：體育、運動、康樂、消閒與豐盛人生：歷史和發展

第二部分：人體

第三部分：動作分析

第四部分：維持健康生活表現的體適能和營養

第五部分：運動與訓練的生理學基礎

第六部分：運動創傷、處理與預防方法

第七部分：體育、運動及康樂相關心理技能

第八部分：體育、運動及康樂的社會影響

第九部分：運動和康樂活動管理



評核

部分	內容	比重	備註
理論—公開考試	卷一 多項選擇36題及短答 卷二 長答 (三揀二，每題18分)	60%	2小時15分鐘 1小時15分鐘
體能及技能—公開考試	(1) 兩項體育活動 一田一徑、游水、體操 (三選一) 成績及動作 籃足排羽乒手 (六選一) 基本個人技術20分 比賽 10分 (2) 體能 situp / chinning / sit & reach / 1609m	40%	2月---3月期間考

***註：建議同學考慮能否應考技能及體能部份，最少為以上其中一項體育項目校隊成員或有相關訓練經驗**

升學及就業出路

科學： 運動科學，健康科學，營養，物理治療，生物，物理等

人文及社會科學： 教育，康樂管理，社會學，心理學，新聞等

有關行業： 教育，康樂管理，紀律部隊，物理治療師，健身行業，教練，營養師，醫療輔助等

同學如對本科有任何疑問，可與劉漢棋老師查詢。

Visual Arts



Curriculum Objectives

Enable students to:

- enrich their aesthetics and arts experience;
- strengthen their abilities to appreciate and create various forms of visual arts work aesthetically and critically;
- develop perceptual abilities, generic skills and meta-cognition through autonomous and open-ended processes of inquiry in visual arts learning;
- enhance multiple perspectives, and cultural and cross cultural understanding through exploration of the visual arts of diverse cultures;
- cultivate personal refinement, values and attitudes, self-identity and a sense of commitment towards the community, the nation and the world; and
- acquire a foundation for pursuing educational and career opportunities in the visual arts and creative industries.

Curriculum Contents

Visual Arts Making	Art Appreciation & Criticism
<ul style="list-style-type: none">○ <i>Visual Presentation</i>○ <i>Relationship between Practical Work and Appreciation & Criticism of the Artwork</i>○ <i>Creativity & Imagination</i>○ <i>Communication of Theme</i>	<ul style="list-style-type: none">○ <i>Literal Description</i>○ <i>Formal Analysis</i>○ <i>Interpretation Of Meaning</i>○ <i>Value Judgement</i>

Assessments

Component		Weighting	Duration
Public Examination	Choose either Paper 1 or Paper 2. Paper 1- Visual presentation of a theme Paper 2- Design Each paper is divided into two parts: Part A 10% Part B 40%	50%	4 hours
School-based Assessment (SBA)	Submit ONE portfolio which should consist of: (a) Research workbook (20%) (b) Artwork/Critical studies (30%)	50%	

Abilities and Skills required to this subject

Visual arts students should:

- have the passion and commitment in visual arts;
- possess good command of English;
- have good observation skills;
- be creativity;; and
- have solid foundation in sketching, drawing, painting, and/or other medium.

Further Study and Career Opportunities

- Further Studies: Local/Overseas art related undergraduate program in post-secondary institute, such as fine art and design.
- Career Opportunities: In the sector of cultural and creativity industries including advertising, architecture, art and crafts, cultural education, design, museum services, and publishing.

For further enquiries about this subject, please contact Mr. Bernard Chan.

(c) **Mathematics Extended Modules I and II**

Curriculum Objectives

The Mathematics Curriculum (S4 – 6) is a continuation of the existing Mathematics Curriculum at the junior secondary level. It aims at helping students to consolidate what they have learnt through basic education, broadening and deepening their learning experiences, as well as further enhancing their positive values and attitudes towards mathematics learning. To ensure a seamless transition between the junior and senior secondary levels, a coherent curriculum framework is designed for mathematics education at both levels.

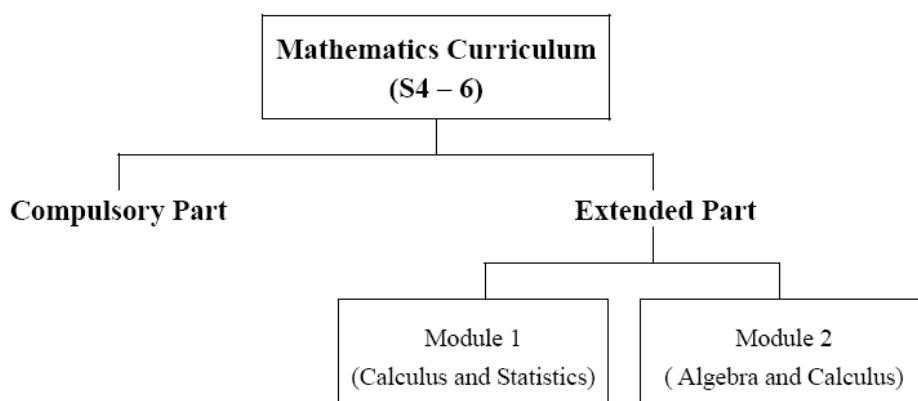


The curriculum also aims to prepare students for a range of post-secondary pathways, including tertiary education, vocational training and employment. It consists of a Compulsory Part and an Extended Part. In order to broaden students’ choices for further study and work, two modules in the Extended Part are provided to further develop their knowledge of mathematics. These two modules are designed to cater for students who intend to:

- pursue further studies which require more mathematics; or
- follow a career in fields such as natural sciences, computer sciences, technology or engineering.

Curriculum Contents

The structure of the Mathematics Curriculum (S4 – 6) can be represented diagrammatically as follows:



Module 1 (Calculus and Statistics) focuses on statistics and the application of mathematics, and is designed for students who will be involved in study and work which demand a wider knowledge and deeper understanding of the application of mathematics, in particular, statistics.

Module 2 (Algebra and Calculus) focuses on mathematics in depth and aims to cater for students who will be involved in a mathematics-related discipline or career.

Assessments

The students’ performances in the public examination in the Compulsory Part, Module 1 and Module 2 will be separately reported for the reference of different users.

Module	Component		Weighting	Duration
1	Public Examination	Conventional questions	100%	2½ hours
2	Public Examination	Conventional questions	100%	2½ hours

Abilities or skills required

Module 1 (Calculus and Statistics)

Students are expected to possess a good command of English Language and analytical mindset. Memorizing good examples in each topic and numerical skills are necessary.

Module 2 (Algebra and Calculus)

Students are expected to possess a good ability in understanding the abstract, complex mathematical expressions or numbers through mathematical methods. Memorizing good examples in each topic and numerical skills are necessary.

Further Study and Career Opportunities

“We use mathematics everyday!” Mathematics is not only core subject in NSS curriculum but also is the foundation tools for our daily life and further studies. Good result in the Compulsory Part of Mathematics Curriculum is a key to enter the universities in Hong Kong. If you want to choose to further study in business administration, natural sciences, computer sciences, technology or engineering, the Extended Part of Mathematics Curriculum is required.






For further enquiries about this subject, please contact Mr. Sum Wong.

(d) Applied Learning Courses

Applied Learning (ApL) aims to:

- enabling students to understand fundamental concepts and theories through application and practice, and to develop their generic skills in authentic context, and
- provide students with opportunities to explore their career aspirations and orientation for lifelong learning in specific areas.

Applied Learning (ApL) courses information (based on 2017-19 cohort)

Course	Course Provider	Medium of Instruction	Course Synopsis
Film and Video Studies 電影及錄像	VTC	Chinese or English	
Fashion and Image Design 時裝及形象設計	VTC	Chinese or English	
Interior Design 室內設計	VTC	Chinese or English	
Aviation Studies 航空學	HKU SPACE	Chinese or English	
Practical Psychology 實用心理學	HKBU (SCE)	Chinese or English	

III. Basic Admission Requirements

(a) Elective Subjects:

- Biology: Grade E or above in the overall year end grade in Biology Part of Integrated Science in F3
- Chemistry: Grade E or above in the overall year end grade in Chemistry Part of Integrated Science in F3
- Physics: Grade E or above in the overall year end grade in Physics Part of Integrated Science in F3
- Chinese History: Grade E or above in the overall year end grade in History Studies in F3
- Economics: Grade E or above in the overall year end grade in Life & Society in F3
- Geography: Grade E or above in the overall year end grade in Geography in F3
- History: Grade E or above in the overall year end grade in History Studies in F3
- Business, Accounting and Financial Studies:
Grade E or above in the overall year end grade in Life & Society in F3
Grade E or above in the year end grade in Mathematics in F3
- Information and Communication Technology:
Grade E or above in the year end grade in Computer Literacy in F3
- Physical Education:
Grade D or above in the overall year end grade in Physical Education in F3
Recommendation from Physical Education subject teacher
- Visual Arts: Grade C or above in the overall year end grade in Visual Arts in F3
Recommendation from Visual Arts subject teacher

(b) Mathematics Extended Module (M1 / M2):

- Module 1 (Calculus and Statistics): Grade C or above in the overall year end grade in Mathematics in F3
- Module 2 (Algebra and Calculus): Grade C or above in the overall year end grade in Mathematics in F3