1. **Block Timetabling**
   - For the elective subject groups so as to fulfill all students’ preference as far as possible.
   - Subject groups in the same block will have the lesson in the same time period.
   - All students should take three electives, 3X, in F.4 (Except for F.4 repeaters).

**Examples:**

(a) **2010 – 2011 Block Timetabling in Elective Subjects of F.4**

<table>
<thead>
<tr>
<th>Block 1</th>
<th>4A</th>
<th>4B</th>
<th>4C</th>
<th>4D</th>
<th>4E</th>
<th>4F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>Economics</td>
<td>BAFS_A</td>
<td>Biology</td>
<td>Geography</td>
<td>Physics</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Block 2</td>
<td>Bio</td>
<td>Chem</td>
<td>Phy</td>
<td>BAFS_B</td>
<td>BAFS_A</td>
<td>ICT</td>
</tr>
<tr>
<td>Block 3</td>
<td>Bio</td>
<td>Chem</td>
<td>Phy</td>
<td>Econ</td>
<td>V.A.</td>
<td>Hist</td>
</tr>
</tbody>
</table>

(b) **2011 – 2012 Block Timetabling in Elective Subjects of F.4**

<table>
<thead>
<tr>
<th>Block 1</th>
<th>4A</th>
<th>4B</th>
<th>4C</th>
<th>4D</th>
<th>4E</th>
<th>4F</th>
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</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>BAFS_A</td>
<td>Biology</td>
<td>Chemistry</td>
<td>Economics</td>
<td>BAFS_A</td>
<td>Physics</td>
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<td>V.A.</td>
<td>BAFS_B</td>
<td>Geog</td>
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<td>Block 3</td>
<td>Bio</td>
<td>Chem</td>
<td>Phy</td>
<td>Econ</td>
<td>Geog</td>
<td>Hist</td>
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</table>

(c) **2012 – 2013 Block Timetabling in Elective Subjects of F.4**

<table>
<thead>
<tr>
<th>Block 1</th>
<th>4A</th>
<th>4B</th>
<th>4C</th>
<th>4D</th>
<th>4E</th>
<th>4F</th>
<th>4G</th>
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</thead>
<tbody>
<tr>
<td>Block 1</td>
<td>Phy</td>
<td>Chem</td>
<td>Bio</td>
<td>Econ</td>
<td>Geog</td>
<td>BAFS_A</td>
<td>Chem</td>
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<tr>
<td>Block 2</td>
<td>Bio</td>
<td>Chem</td>
<td>Phy</td>
<td>BAFS_B</td>
<td>Econ</td>
<td>Hist</td>
<td>ICT</td>
</tr>
<tr>
<td>Block 3</td>
<td>Bio</td>
<td>Chem</td>
<td>Phy</td>
<td>BAFS_A</td>
<td>Geog</td>
<td>中史</td>
<td>VA</td>
</tr>
</tbody>
</table>

* **NOT Block Timetabling**

There are 2 Elective Parts for *BAFS: Accounting module OR Business Management module. Students taking BAFS can choose either one Module ONLY.

<table>
<thead>
<tr>
<th>Science KLA</th>
<th>Biology (3)</th>
<th>Personal, Social &amp; Humanities Education KLA</th>
<th>中史 (1)</th>
<th>Technology Education KLA</th>
<th>ICT (1) (Information &amp; Communication Technology)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry (4)</td>
<td>Economic (2) KLA and Arts Education KLA</td>
<td>Geography (2) KLA</td>
<td>History (1)</td>
<td>KLA</td>
<td></td>
</tr>
<tr>
<td>Physics (3)</td>
<td>Visual Arts (1)</td>
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</tr>
</tbody>
</table>

* *BAFS (3) (Business, Accounting & Financial Studies)
2. Allocate Elective Subjects to Students

The first two choices of each student will be fulfilled in the 1st iteration in order of their Grand Average Marks (GAM). His/her remaining choice will be allocated in the 2nd iteration.

3. Ranking Criteria

a. The grand average marks (GAM) would be employed as the criteria for ranking F.3 students of 2012/2013.

b. The score scale for calculating the GAM is:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Chi</th>
<th>Eng</th>
<th>Math</th>
<th>LBS</th>
<th>Bio</th>
<th>Chem</th>
<th>Phy</th>
<th>Geog</th>
<th>Hist</th>
<th>C. Hist.</th>
<th>BAE</th>
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<tbody>
<tr>
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<td>2</td>
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<td>2</td>
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<td>1</td>
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<td>Music</td>
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<td>PE</td>
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<td>V.A.</td>
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<td>PTH</td>
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<td>0.25</td>
<td>0.25</td>
<td></td>
</tr>
</tbody>
</table>

c. The student with the highest GAM ranks first on the list for choosing the elective subjects, so on and so forth.

d. Students are invited to indicate their order of preference of the electives (from 1 to 10). The ten elective subjects are:

BAFS (Business, Accounting & Financial Studies) 企業、會計與財務概論
Economics 經濟
Geography 地理
Chinese History 中國歷史
History 歷史
ICT 資訊及通訊科技 (Information & Communication Technology)
Visual Arts 視覺藝術

4. Class Designation

a. Students do not need to apply to be enrolled in a particular class.

b. GAM will be the tool for assigning students into the classes from A to G.

5. Maximum Quota for each Elective

<table>
<thead>
<tr>
<th>Elective per subject group</th>
<th>Max. Quota</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 生物 / Chemistry 化學 / Physics 物理</td>
<td>35</td>
</tr>
<tr>
<td>BAFS (Business, Accounting &amp; Financial Studies) 企業、會計與財務概論</td>
<td>35</td>
</tr>
<tr>
<td>Economics 經濟 / Geography 地理</td>
<td>35</td>
</tr>
<tr>
<td>History 歷史 / Chinese History 中國歷史</td>
<td>35</td>
</tr>
<tr>
<td>Visual Arts 視覺藝術</td>
<td>35</td>
</tr>
<tr>
<td>ICT 資訊及通訊科技 (Information &amp; Communication Technology)</td>
<td>21</td>
</tr>
</tbody>
</table>

F.3 Students must indicate their preference of either one of the BAFS modules

- in the NSS Online Survey from 15th – 17th March 2013, or
- in the NSS Student Option Online System in mid May.

6. No Provision of Applied Learning

For Maths, two classes would be allowed to choose one of the Extended Modules in F.5 & F.6:

Module 1 (Calculus and Statistics) OR Module 2 (Algebra and Calculus)

Students may apply for extended module of Mathematics in the 2nd Term of F.4.
MUNSANG COLLEGE

Guidelines for using NSS Student Option Online Survey (15th – 17th March 2013)

Website:  http://eclass.munsang.edu.hk/templates/login.customized.php

Period for the survey:  From 12:00 nn of 15th March (Fri) to 11:59 pm of 17th March (Sun)

Step 1:  Login eClass and complete the survey for F.3 students.

Step 2:  Click the icon “Survey” next to “iMail”.

Step 3:  Complete the Survey on Student Option For NSS Subjects (2012 – 2013)

Step 4:  Indicate your preferences in the 10 Electives:
1 for the First Choice; 10 for the Last Choice (i.e. input 1 to 10)
(a) Remember you have to choose either BAFS (Accounting) or BAFS (Business).
(b) Indicate whether you would take NSS Music as one of your electives.
(c) Multiple entries would be allowed before 11:59 p.m. of 17th March 2013 (Sun).

Step 5:  Remember to Submit at or before 11:59 p.m. 17th March 2013 (Sun).
Outline of the 10 elective courses to be offered in NSS curriculum:

**Science Key Learning Area**

### Biology

The following topics are included in the NSS Biology curriculum:

- Cells and Molecules of Life
- Genetics and Evolution
- Organisms and Environment
- Health and Diseases

Through the study of Biology, students may understand how cells and genes are related to the essential life processes of complex organisms; the interaction between organisms and their environment; and develop a positive attitude towards health.

In the normal lesson time, simple investigation and practical works would be included. Besides, cross-topics investigations would be arranged to enhance students to develop the different scientific skills and appreciate the nature of science.

### Chemistry

Through the learning of chemistry, you can understand the composition, structures, and properties of matter; and the interactions between different types of matter. Besides, a study of chemistry in real-life contexts also helps to develop understanding and appreciation of developments in engineering, medicine and other related scientific and technological fields, e.g. the use of new materials like carbon nanotube, fuel cells, energy crisis and forensic science.

The curriculum includes topics such as

- atomic structure
- bonding, structure and properties
- metals and non-metals
- acids and bases
- industrial chemistry.
- analytical chemistry

Students are required to conduct practical works during the lesson time so as to develop the skills in scientific investigation and problem solving.

### Physics

Through the learning of physics, you can acquire conceptual and procedural knowledge relevant to daily lives. You can also develop an understanding of the practical applications of physics to a wide variety of other fields, and should be able to appreciate the intrinsic beauty and quantitative nature of physical phenomena, and the role of physics in many important developments in engineering, medicine, economics and other fields of science and technology.

The curriculum includes topics such as

- heat transfer and gases
- force and motion
- wave motion
- electricity and magnetism
- radioactivity and nuclear energy.

Students are required to conduct practical works during normal lesson time to develop their scientific investigation techniques and problem solving skills.
### Personal, Social & Humanities Education Key Learning Area

#### Chinese History 習近史

本課程包括：

甲：公開考試 (80 分)

卷一：「歷代發展」(必修部份)，佔 48%，考試時間兩小時：

- 甲部：上古至十九世紀中葉
- 乙部：十九世紀中葉至二十世紀末

卷二：「歷史專題」(選修部份)：下列六個專題，選修兩個，佔 32%，考試時間一小時二十分鐘：

- 二十世紀中國傳統文化的發展：承傳與轉變
- 地域與資源運用
- 時代與知識份子
- 制度與政治演變
- 宗教傳播與文化交流
- 女性社會地位：傳統與變遷

乙：校本評核 (20 分)

學生按「學習及評核計劃」呈交習作。

#### History

The study of history helps to develop a global perspective and an understanding of the processes of interaction, diversification and rapid change in today’s world. The curriculum consists of two parts:

A. Written Examination (80%): Compulsory part with two themes

- Modernisation & Transformation in Twentieth-century Asia, e.g. Modernization and Transformation of Hong Kong, China, Japan and Southeast Asia.
- Conflicts & Cooperation in the Twentieth-century World, e.g. the Two World Wars and the Peace Settlements, the Cold War, etc.

B. School-based Assessment (20%): Students can specialize in any ONE of the following in the form of mini-research

- Comparative studies
- Issue-based studies
- Local heritage studies

#### Geography

Through geographical study, you can see meaning in the arrangement of things in space; see relations between people, place and environment; and develop lifelong learning skills.

NSS curriculum includes interesting fieldwork and study of geographical problems:

- Is it rational to live in hazard-prone areas?
- Managing Rivers and Coastal Environments: A continuing challenge
- 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?
- Combating Famine — Can technology solve food shortage problem?
- Disappearing Green Canopy – Who should pay for the deforestation in rainforest?
- Global Warming
Economics

The curriculum objectives are to develop students’ interest in exploring human behaviour and social issues through an economic perspective and help students understand the world in which they live through mastery of basic economic knowledge.

The curriculum includes the following topics:

Compulsory part:
(a) basic economic concepts  
(b) production and firms  
(c) market and price  
(d) competition and market structure  
(e) efficiency, equity and the role of government  
(f) measurement of economic performance  
(g) national income determination and price level  
(h) money and banking  
(i) macroeconomic problems and policies  
(j) international trade and finance

Elective part:
(a) monopoly pricing, anti-competitive behaviours and competition policy; OR  
(b) extension of trade theory, economic growth and development.

Arts Education Key Learning Area

Visual Arts

This curriculum assists students to acquire artistic and aesthetic experience, knowledge, skills, values and attitudes. It also helps them to obtain a foundation for pursuing further education and career opportunities in the art and creative industries.

The assessment includes two parts:

Public Examination (50%) ---
Paper 1 - Visual presentation of a theme OR  
Paper 2 – Design

In each Paper, candidates are required to attempt BOTH of the following sections:
(a) Written presentation on critical appreciation of reproductions of artwork provided (10%), and  
(b) Art making (40%)

School-Based Assessment (50%) --- Submit One portfolio consisting of:
(a) Research workbook (Presentations on art appreciation and criticism in context in relation to art making /critical studies, and research process) (20%); and  
(b) 4 pieces of Artwork / Critical Studies of a theme (30%)
### Business, Accounting and Financial Studies (BAFS)

The aim of the BAFS curriculum is to provide students with fundamental business knowledge and skills and develop their values and attitudes, so that they can play their roles competently and confidently as consumers, investors, employees and entrepreneurs. Throughout the learning process of BAFS, students can appreciate the pace of change in the business world and develop an awareness of an interest in business for planning their academic and career development.

The curriculum includes the following topics:

- (a) Hong Kong Business environment
- (b) Introduction to management and accounting
- (c) Basics of personal financial management

**Elective part:**

- Accounting:  
  - (a) Financial accounting
  - (b) Cost accounting
- OR  
  - Management:
  - (a) Marketing management
  - (b) Financial management
  - (c) Human resources management

### Information and Communication Technology (ICT)

No one can deny that the immediate future of Hong Kong is dependent upon its transformation into a knowledge-based society.

This curriculum is intended to develop your ICT abilities to meet the new socio-economic needs of Hong Kong, and it includes topics like:

- Information Processing & Presentation
- Computer Systems and Networks
- Internet and its Applications
- Basic Programming Concepts
- Social Implications

One of the following electives, with related project work will also be chosen:

- Databases
- Data Communications and Networking
- Multimedia Production and Web Site Development
- Software Development
Further information is available via the following websites and contacts:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Telephone / e-mail</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>The University of Hong Kong</td>
<td>2859 2433 <a href="mailto:admissions@hku.hk">admissions@hku.hk</a></td>
<td><a href="http://www.hku.hk/admission/ug">http://www.hku.hk/admission/ug</a></td>
</tr>
<tr>
<td>The Chinese University of Hong Kong</td>
<td>3943 8947 / 3943 8951 <a href="mailto:jupasadm@cuhk.edu.hk">jupasadm@cuhk.edu.hk</a></td>
<td><a href="http://www.als.hk/admission/applying-or-admission-info/hong-kong-students/jupas">http://www.als.hk/admission/applying-or-admission-info/hong-kong-students/jupas</a></td>
</tr>
<tr>
<td>The Hong Kong University of Science and Technology</td>
<td>2623 1118 <a href="mailto:ujupas@ust.hk">ujupas@ust.hk</a></td>
<td><a href="http://join.ust.hk/local/jupas/apply_jupas_offer_degree.html">http://join.ust.hk/local/jupas/apply_jupas_offer_degree.html</a></td>
</tr>
<tr>
<td>The Hong Kong Polytechnic University</td>
<td>2333 0600 <a href="mailto:asadmit@polyu.edu.hk">asadmit@polyu.edu.hk</a></td>
<td><a href="http://www.polyu.edu.hk/study">http://www.polyu.edu.hk/study</a></td>
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<tr>
<td>City University of Hong Kong</td>
<td>3442 9094</td>
<td><a href="http://www.admo.cityu.edu.hk/jupas_hkdse/">http://www.admo.cityu.edu.hk/jupas_hkdse/</a></td>
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<td>Hong Kong Baptist University</td>
<td>3411 5027 / 3411 7358 <a href="mailto:334JUPAS@hkbu.edu.hk">334JUPAS@hkbu.edu.hk</a></td>
<td><a href="http://www.hkbu.edu.hk/ar/admissions/jupas">http://www.hkbu.edu.hk/ar/admissions/jupas</a></td>
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<tr>
<td>Lingnan University</td>
<td>2616 8750 <a href="mailto:UGadm@LN.edu.hk">UGadm@LN.edu.hk</a></td>
<td><a href="http://www.in.edu.hk/admissions/jupas/4-year/">http://www.in.edu.hk/admissions/jupas/4-year/</a></td>
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<tr>
<td>The Hong Kong Institute of Education</td>
<td>2948 6886 <a href="mailto:admission@ied.edu.hk">admission@ied.edu.hk</a></td>
<td><a href="http://www.ied.edu.hk/degree/app_jupas_dse.htm">http://www.ied.edu.hk/degree/app_jupas_dse.htm</a></td>
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<tr>
<td>JUPAS</td>
<td>2334 2330 (24-hour hotline) 2334 2929</td>
<td><a href="http://www.jupas.edu.hk/en/j4">http://www.jupas.edu.hk/en/j4</a></td>
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