DSE Math Extended Part
Modules 1 / 2 (M1 / M2)
According to CDC, the NSS Mathematics Curriculum is divided into:

<table>
<thead>
<tr>
<th>Compulsory Part</th>
<th>Foundation Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-foundation Topics</td>
<td></td>
</tr>
<tr>
<td>Extended Module 1</td>
<td>Calculus and Statistics</td>
</tr>
<tr>
<td>Extended Module 2</td>
<td>Algebra and Calculus</td>
</tr>
</tbody>
</table>
The two modules in the Extended Part are provided to

- further develop students’ knowledge of mathematics,
- broaden their choices for further study and work.
Extended **Module 1** – to be offered as **X3**

- Focuses on statistics and the application of mathematics
- 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.
- Past Syllabuses: (CE) A. Math; (ASL) Math and Stat; (AL) App. Math
Extended Module 2 - to be offered after school for students already having 3Xs

- Focuses on mathematics in depth
- Aims to cater for students who will be involved in a mathematics-related discipline or career.
- Past Syllabuses: (CE) A. Math; (AL) Pure Math
Who should take it?

- The Extended Part aims at extending students’ mathematics horizon beyond the Compulsory Part.
- Students have to handle more complicated problems in the Extended Part than in the Compulsory Part.
Who should take it?

- The Extended Part is designed for students:
  - who need more mathematical knowledge and skills for their *future studies* and
  - whose interests and maturity have been developed to a level that enables them to benefit from further mathematical study in different areas.
Extended Modules equivalent to 1X
CUHK

- Business Administration
  - Insurance, Financial and Actuarial Analysis
  - Quantitative Finance
- Education
  - Mathematics and Mathematics Education
- Engineering
- Science
  - Pure Sciences
  - Enrichment Mathematics
  - Quantitative Finance and Risk Management Science
The HK Polytechnic University

- Applied Sciences
  - Engineering Physics
  - Investment Science
- Construction and Land Use
- Engineering
- Health Sciences
  - Biomedical Engineering
● Business and Economics
  ● Business Administration (Information Systems)
  ● Quantitative Finance
● Engineering
● Science
  ● Actuarial Science
## Further Studies? -- Overseas

### UK – UCAS tariff

<table>
<thead>
<tr>
<th>Level</th>
<th>Compulsory Part</th>
<th>Extended Part</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5**</td>
<td>NA</td>
<td>NA</td>
<td>To be allocated with further evidence after the first administration of the HKDSE examinations in 2012.</td>
</tr>
<tr>
<td>5</td>
<td>60</td>
<td>70</td>
<td>● 130 points (60+70) for 5* in both compulsory and extended parts</td>
</tr>
<tr>
<td>4</td>
<td>35</td>
<td>50</td>
<td>● 120 points (60+60) for 5* in the compulsory part and 5 in the extended part</td>
</tr>
<tr>
<td>3</td>
<td>25</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>
References:

- Mathematics Curriculum and Assessment Guide (Secondary 4 - 6)  
  http://www.edb.gov.hk/FileManager/EN/Content_5999/math_final_e.pdf

- Assessment Framework of Mathematics  

- International Recognition, HKEAA  

- Benchmarking Studies on International Examinations > UCAS (2010), HKEAA  