

School A**Basic Information (2009/10):**

- 4 classes in S4
- 3 blocks of elective subjects
- All students take 3 elective subjects
- CMI school

Subjects Offered in S4 (2009/10): (13 subjects)

生物、化學、物理、組合科學(生物+化學)、組合科學(物理+生物)、中國歷史、經濟、地理、旅遊與款待、企業、會計與財務概論、設計與應用科技、資訊及通訊科技、視覺藝術

S3 students' preferences, Maximum no. of group size and No. of Groups:

| Subject | Max Size | No. of Groups | NOR* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Total |
|---------|----------|---------------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| 生物 | 40 | 1 | 33 | 10 | 10 | 11 | 22 | 11 | 13 | 6 | 14 | 17 | 7 | 0 | 0 | 0 | 0 | 121 |
| 化學 | 40 | 1 | 65 | 56 | 12 | 9 | 10 | 18 | 23 | 15 | 14 | 14 | 32 | 0 | 0 | 0 | 0 | 203 |
| 物理 | 40 | 1 | 43 | 23 | 8 | 17 | 17 | 14 | 9 | 13 | 12 | 7 | 7 | 0 | 0 | 0 | 0 | 127 |
| 生化 | 40 | 1 | 17 | 10 | 6 | 9 | 10 | 10 | 5 | 10 | 7 | 7 | 5 | 0 | 0 | 0 | 1 | 80 |
| 物生 | 40 | 1 | 17 | 13 | 4 | 2 | 8 | 9 | 8 | 10 | 6 | 4 | 5 | 0 | 0 | 1 | 0 | 70 |
| 中史 | 40 | 1 | 16 | 6 | 2 | 6 | 13 | 9 | 12 | 9 | 11 | 6 | 11 | 0 | 0 | 0 | 0 | 85 |
| 經濟 | 40 | 2 | 71 | 19 | 25 | 33 | 23 | 9 | 10 | 10 | 11 | 6 | 3 | 0 | 0 | 0 | 0 | 149 |
| 地理 | 40 | 1 | 25 | 2 | 10 | 17 | 18 | 12 | 17 | 20 | 12 | 11 | 2 | 0 | 0 | 0 | 0 | 121 |
| 旅遊 | 40 | 1 | 42 | 22 | 13 | 7 | 10 | 7 | 11 | 8 | 7 | 28 | 34 | 1 | 0 | 0 | 0 | 148 |
| 企業 | 40 | 1 | 62 | 24 | 33 | 11 | 10 | 13 | 9 | 11 | 15 | 13 | 10 | 0 | 0 | 0 | 0 | 149 |
| BAFS | 40 | 1 | 33 | 5 | 25 | 14 | 6 | 11 | 10 | 12 | 6 | 11 | 7 | 0 | 0 | 0 | 0 | 107 |
| 設計 | 40 | 1 | 1 | 0 | 0 | 1 | 4 | 5 | 4 | 9 | 11 | 7 | 3 | 0 | 0 | 0 | 0 | 44 |
| 資訊 | 40 | 1 | 14 | 0 | 5 | 10 | 2 | 19 | 13 | 14 | 14 | 7 | 12 | 0 | 0 | 0 | 0 | 96 |
| 視藝 | 40 | 1 | 8 | 2 | 2 | 4 | 1 | 3 | 9 | 6 | 13 | 12 | 12 | 0 | 1 | 0 | 0 | 65 |

* NOR - Number of Requests according to the number of electives students need to take

Remark:

企業 - 企業、會計與財務概論(商業管理單元)

BAFS - 企業、會計與財務概論(會計單元).

Time Blocks in S4 (2009/10):

Time blocks are generated with a view to maximising students' satisfaction according to their preferences.

| | 4A | 4B | 4C | 4D |
|-------------|-------------------------------|------|----|----|
| Block 1 (4) | 化學 | 經濟_1 | 旅遊 | 企業 |
| Block 2 (5) | 生物 / 生化 / 地理 / BAFS / 資訊 | | | |
| Block 3 (6) | 物理 / 物生 / 中史 / 經濟_2 / 設計 / 視藝 | | | |

| Subject Group | Block 1 | Block 2 | Block 3 |
|---|---------|---------|---------|
| 生物 - 生物 | | 生物 | |
| 化學 - 化學 | 化學 | | |
| 物理 - 物理 | | | 物理 |
| 科學：組合科學 (生物及化學) - 生化 | | 生化 | |
| 科學：組合科學 (物理及生物) - 物生 | | | 物生 |
| 中國歷史 - 中史 | | | 中史 |
| 經濟 - 經濟組別 1 | 經濟組別 1 | | |
| 經濟 - 經濟組別 2 | | | 經濟組別 2 |
| 地理 - 地理 | | 地理 | |
| 旅遊與款待 - 旅遊 | 旅遊 | | |
| 企業、會計與財務概論 - 企業 | 企業 | | |
| Business, Accounting and Financial Studies - BAFS | | BAFS | |
| 設計與應用科技 - 設計 | | | 設計 |
| 資訊及通訊科技 - 資訊 | | 資訊 | |
| 視覺藝術 - 視藝 | | | 視藝 |

Time Block with Satisfaction Rate (2009/10):

1st Trial: Subjects were allocated to all students by using 'Choice 1' (i.e. one of each student's choices will be fulfilled in each iteration).

Allocation Results

| Subject Group | Block 1 | Block 2 | Block 3 |
|--------------------------------|---------------|-------------|---------------|
| 生物 | | 生物 (9/40) | |
| 化學 | 化學 (0/40) | | |
| 物理 | | | 物理 (0/40) |
| 生化 | | 生化 (13/40) | |
| 物生 | | | 物生 (17/40) |
| 中史 | | | 中史 (17/40) |
| 經濟組別 1 | 經濟組別 1 (6/40) | | |
| 經濟組別 2 | | | 經濟組別 2 (0/40) |
| 地理 | | 地理 (6/40) | |
| 旅遊 | 旅遊 (5/40) | | |
| 企業 | 企業 (0/40) | | |
| BAFS | | BAFS (1/40) | |
| 設計 | | | 設計 (38/40) |
| 資訊 | | 資訊 (22/40) | |
| 視藝 | | | 視藝 (21/40) |
| Allocated Seats/No. of Student | 149/150 | 149/150 | 147/150 |

* (Vacancies/Capacity)

| Preference | Assigned | Not Assigned | % |
|---|----------|--------------|--------|
| 1 | 136 | 13 | 91.28% |
| 2 | 115 | 34 | 77.18% |
| 3 | 72 | 77 | 48.32% |
| 4 | 40 | 109 | 26.85% |
| 5 | 28 | 121 | 18.79% |
| 6 | 28 | 121 | 18.79% |
| 7 | 21 | 128 | 14.09% |
| 8 | 15 | 134 | 10.07% |
| 9 | 8 | 141 | 5.37% |
| 10 | 8 | 140 | 5.41% |
| 11 | 0 | 1 | 0.00% |
| 12 | 0 | 1 | 0.00% |
| 13 | 0 | 1 | 0.00% |
| 14 | 0 | 1 | 0.00% |
| Number of Subjects Assigned | 445 | | |
| Number of Student Options of the Top 3 Priority | 450 | | |
| Number of Student Options Entered | 1493 | | |
| Overall Allocation Rate | 98.89% | | |
| Overall Satisfaction Rate | 77.63% | | |

2nd Trial: Subjects were allocated to the top 40 students by using ‘Choice 3’ and the remaining students by using ‘Choice 1’.

Allocation Results

Time Block Allocation

| Subject Group | Block 1 | Block 2 | Block 3 |
|--------------------------------|----------------|-------------|----------------|
| 生物 | | 生物 (8/40) | |
| 化學 | 化學 (0/40) | | |
| 物理 | | | 物理 (0/40) |
| 生化 | | 生化 (13/40) | |
| 物生 | | | 物生 (20/40) |
| 中史 | | | 中史 (15/40) |
| 經濟 組別 1 | 經濟 組別 1 (8/40) | | |
| 經濟 組別 2 | | | 經濟 組別 2 (0/40) |
| 地理 | | 地理 (7/40) | |
| 旅遊 | 旅遊 (3/40) | | |
| 企業 | 企業 (0/40) | | |
| BAFS | | BAFS (1/40) | |
| 設計 | | | 設計 (38/40) |
| 資訊 | | 資訊 (22/40) | |
| 視藝 | | | 視藝 (21/40) |
| Allocated Seats/No. of Student | 149/150 | 149/150 | 146/150 |

* (Vacancies/Capacity)

| Preference | Assigned | Not Assigned | % |
|---|----------|--------------|--------|
| 1 | 134 | 15 | 89.93% |
| 2 | 115 | 34 | 77.18% |
| 3 | 73 | 76 | 48.99% |
| 4 | 43 | 106 | 28.86% |
| 5 | 29 | 120 | 19.46% |
| 6 | 29 | 120 | 19.46% |
| 7 | 18 | 131 | 12.08% |
| 8 | 14 | 135 | 9.40% |
| 9 | 8 | 141 | 5.37% |
| 10 | 7 | 141 | 4.73% |
| 11 | 0 | 1 | 0.00% |
| 12 | 0 | 1 | 0.00% |
| 13 | 0 | 1 | 0.00% |
| 14 | 0 | 1 | 0.00% |
| Number of Subjects Assigned | 444 | | |
| Number of Student Options of the Top 3 Priority | 450 | | |
| Number of Student Options Entered | 1493 | | |
| Overall Allocated Rate | 98.67% | | |
| Overall Satisfaction Rate | 78.30% | | |

Suggested Examination Timetable for elective subjects:

Based on the aforesaid ***Time Blocks in S4 (2009/10)***, a minimum of 6 days is suggested for the examination time-table of elective subjects.

| Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 |
|--|--|--|--|--|--|
| <ul style="list-style-type: none"> • 化學 • 旅遊 | <ul style="list-style-type: none"> • 經濟 | <ul style="list-style-type: none"> • 生物 • 地理 • 資訊 | <ul style="list-style-type: none"> • 企業 | <ul style="list-style-type: none"> • 組合科學 | <ul style="list-style-type: none"> • 物理 • 中史 • 設計 • 視藝 |

School's Considerations:

Class arrangement

- Subjects in block 1 are used to arrange students into classes.

Subjects offered

- Since only 2 students are allocated the subject ‘設計與應用科技’ , the school is considering not offering this subject in 2009/10.

Subject allocation

- The school uses ‘Choice 1’ to allocate subjects to students in the 1st Trial hoping that every student can have their first option satisfied. The results show that some of the top-ranking students could not have their first three options satisfied.

SOP – Example 1

- In the 2nd Trial, ‘partial allocation’ is adopted. The top 40 students are first allocated with ‘Choice 3’. The remaining students are then allocated with ‘Choice 1’. The results show that there was no significant difference between the two trials in the overall satisfaction rate, but the satisfaction rate for the top 40 students is higher in the 2nd Trial. The school has to decide on which method of subject allocation will be used.

(Updated as at 15 June 2009)