

## Curriculum for BSc in Mathematics and Economics

### Major Program Requirements

#### Core courses

MATH 102	Multivariate and Vector Calculus	[2-1-0:4]
MATH 111	Linear Algebra	[3-1-0:4]
MATH 202	Introduction to Real Analysis	[2-1-0:4]
ECON 198	Microeconomic Theory I	[3-1-0:4]
ECON 199	Macroeconomic Theory I	[3-1-0:4]

#### Required courses

MATH 144	Applied Statistics	[3-1-0:4]
MATH 301	Real Analysis	[3-1-0:4]
(1) ECON 150	Big Problems in Economics: Issues, Ideas and Principles	[3-1-0:4]
ECON 200	Microeconomic Theory II	[3-1-0:4]
ECON 201	Macroeconomic Theory II	[3-1-0:4]
ECON 233	Introduction to Econometrics	[3-1-0:4]
(2) ECON 367	Economics Research and Communication	[0 credit]
COMP 102	Computer and Programming Fundamentals I	[3-0-2:3]

#### Elective courses

Elective types		Minimum no. of courses	Minimum total credits
(3) MATH	Mathematics Electives	3	9
(4) ECON	Economics Electives	3	9
FREE	Free Electives	3	9

Note: Unless otherwise approved by the Department, zero-level mathematics courses cannot be used to fulfill any MATH or FREE elective requirements.

### General Education Requirements

Electives must be selected from amongst those general education courses that are listed under the section “Designated General Education Courses for Undergraduate Students”.

Elective types		Minimum no. of courses	Minimum total credits
GEE(SB&M)	Business and Management General Education Elective	1	6
GEE(ENGG)	Engineering General Education Elective	1	
(5) GEE(H&SS)	Humanities and Social Science General Education Elective	4	12

**Required Courses in English Communication**

LABU 101	Business Case Analyses	[0-3-0:4]
LANG 201	Business Communication	[0-3-0:3]

**Other Requirement**

(6) HLTH 001	Healthy Life Style	[0 credit]
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Notes:

- (1) The students who have not taken HKAL Economics or have scored below Grade C in HKAL Economics should take ECON 150. All other students take a free elective.
- (2) The zero-credit ECON 367 research requirement is fulfilled by writing a term paper in one of the Economics electives.
- (3) The three mathematics electives are chosen at the 300-level or above. Some recommended mathematics electives are MATH 310, MATH 341, MATH 346 and MATH 362.
- (4) The three economics electives are chosen at the 300-level or above. Some recommended economics electives are ECON 328, ECON 330, ECON 333 and ECON 335.
- (5) Of these courses, at least one course in Humanities and one in Social Science are required.
- (6) Students are required to take and pass this course in their first year of study. Details of the course and its requirements are announced on the course website <http://www.ab.ust.hk/sao/HLTH001> managed by the Student Affairs Office.

A minimum of 105 credits is required for the BSc program in Mathematics and Economics. Students must take additional course(s) and/or elective(s) other than the core and required courses in order to meet this minimum total of 105 credits.

**Recommended Pattern of Study for BSc in Mathematics and Economics**

1st year	Fall	C MATH 102*, MATH 111, MATH 202* R MATH 144, ECON 150/FREE#, HLTH 001, LABU 101*	(Total: 12 credits)
	Spring	C MATH 102*, MATH 202*, ECON 198, ECON 199 R HLTH 001, LABU 101* E GEE(H&SS)	(Total: 23 credits)
2nd year	Fall	R MATH 301, ECON 200, ECON 201, COMP 102 E GEE(H&SS)	(Total: 18 credits)
	Spring	R ECON 233, LANG 201 E MATH/ECON, GEE(ENGG), FREE	(Total: 17 credits)
3rd year	Fall	R ECON 367 E three MATH/ECON, GEE(H&SS), FREE	(Total: 18 credits)
	Spring	E two MATH/ECON, GEE(SB&M), GEE(H&SS), FREE	(Total: 17 credits)

\* MATH 102, MATH 202 and LABU 101 are two-semester courses. The course credits will be earned on completion of the courses at the end of 1st year Spring semester.

# For students who have not taken HKAL Economics or have scored below Grade C in HKAL Economics.

C = core course; R = required course; E = elective course