(For students admitted in 2012-13 under the 3-year degree)

Curriculum for BSc in Mathematics - Mathematical Sciences Option in Physical and Engineering Science

General Requirements

Students are required to complete the following general requirements for graduation in addition to program specific requirements:

Required Courses in English Communication
Common Core Requirements
Required Course in Physical Education

For details please refer to the section "General Requirements" on this website.

Program Specific Requirements

Credit(s)

Required courses

	MATH 2021	Multivariable and Vector Calculus	4
	MATH 2031	Introduction to Real Analysis	4
	MATH 2121	Linear Algebra	4
	MATH 2352	Differential Equations	4
	MATH 3033	Real Analysis	4
	MATH 3312	Numerical Analysis	3
(1)	MATH 4023	Complex Analysis	3
	COMP 1022P	Introduction to Computing with Java	3

Elective courses

	Elective types		Minimum no. of courses	Minimum total credits
(2,5)	MATH	Mathematics Elective	3	9
(3)	SCI/ENGG	Science/Engineering Elective	7	22
(4,5)	FREE	Free Elective	4	12

Notes:

(1) This course can be replaced by MATH 3121, MATH 4051 or MATH 4223 provided that enrolment quota of these courses is available.

(2) MATH electives must include MATH 2411, MATH 4052 and MATH 4326. MATH 4052 and MATH 4326 can be replaced only by 4000-level or higher mathematics courses.

(3) SCI/ENGG electives must include PHYS 1002, PHYS 2022, PHYS 2411/PHYS 2421 and MECH 2310/MECH 3210. The course identified as Science or Engineering elective (SCI/ENGG) will be selected in consultation with the student's academic advisor.

(4) ISOM 2500 cannot be used to satisfy any FREE elective requirement.

(5) Unless otherwise approved by the Department, mathematics courses coded from 1000 to 1600 cannot be used to fulfill any MATH or FREE elective requirements.

For graduation, students are required to complete both the general requirements and requirements specified for the program, and to earn a minimum of 90 credits.