(For students admitted in 2011-12 under the 3-year degree)

Curriculum for BSc in Mathematics - Mathematical Sciences Option in Computer 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 3033	Real Analysis	4
(1)		MATH 4023	Complex Analysis	3
		COMP 1004**	Programming Fundamentals and Methodology	4
		COMP 2012	Object-Oriented Programming and Data Structures	4
	or	COMP 2012H	OOP and Data Structures (Honors Study Track)	4
		COMP 2611	Computer Organization	4

Elective courses

	Elective types		Minimum no. of courses	Minimum total credits
(2,5)	MATH	Mathematics Elective	5	15
(3)	COMP	Computer Science Elective	5	15
(4,5)	FREE	Free Elective	3	9

***Remarks on course(s):*
- COMP 1004: The course was last offered in 2012-13 and was deleted subsequently.

Notes:

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

(2) MATH electives must include MATH 2343, MATH 3121, MATH 3312 and at least one MATH course of 4000-level or above.

(3) Students must select one of the following groups of study:
Group 1: COMP 3211, COMP 3711/COMP 3711H, at least one COMP course of 4000-level or above
Group 2: COMP 3311, COMP 3711/COMP 3711H, at least one COMP course of 4000-level or above
Group 3: COMP 3031, COMP 3511, COMP 3711/COMP 3711H, at least one COMP course of 4000-level or above
Subject to departmental approval, these courses may be replaced by other COMP electives.

(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.