Honours in Mathematics-Science with concentration in Computer Science (122 credits)		**Honours in Mathematics-Science with concentration in Computer Science (108 credits) Program abolished**	
Requirements 2003-2005		**New course codes 2006**	
Compulsory first-year credits	~~35~~	Compulsory first-year credits	**30**
Suggested course stream for full-time students		Suggested course stream for full-time students	
Fall:		**Fall:**	
~~ITI1220~~ Introduction to Computer Science I	~~4~~	**ITI1120** Introduction to Computer Science I	**3**
ENG1112 Technical Report Writing	3	ENG1112 Technical Report Writing	3
MAT1320 Calculus I	3	MAT1320 Calculus I	3
MAT1341 Introduction to Linear Algebra	3	MAT1341 Introduction to Linear Algebra	3
~~PHY1101~~ Fundamentals of Physics I	3	**PHY1121** Fundamentals of Physics I	3
or		or	
~~PHY1301~~ Principles of Physics I	3	**PHY1321** Principles of Physics I	3
Three credits from the Faculties of Science or Engineering	3	Three credits from the Faculties of Science or Engineering	3
Winter:		**Winter:**	
~~ITI1221~~ Introduction to Computer Science II	~~4~~	**ITI1121** Introduction to Computer Science II	**3**
MAT1322 Calculus II	3	MAT1322 Calculus II	3
~~MAT1361 Logic and Discrete Mathematics~~	~~3~~		
~~PHY1102~~ Fundamentals of Physics II	3	**PHY1122** Fundamentals of Physics II	3
or		or	
~~PHY1302~~ Principles of Physics II	3	**PHY1322** Principles of Physics II	3
Three credits from the Faculties of Science or Engineering	3	Three credits from the Faculties of Science or Engineering	3
Compulsory second-year credits	~~63~~	Compulsory second-year credits	**48**
~~MAT2122 Calculus II~~	~~3~~		
		MAT2121 Analysis II	**3**
MAT2141 ~~Honours Linear Algebra I~~	3	MAT2141 **Linear Algebra I**	**3**
MAT2324 Ordinary Differential Equation and Laplace Transformation	3	MAT2324 Ordinary Differential Equation and Laplace Transformation	3
or		or	
~~MAT2331~~ Ordinary Differential Equations and Numerical Methods	4	**MAT2384** Ordinary Differential Equations and Numerical Methods	**3**
Winter:		**Winter:**	
~~MAT2125 Mathematical Analysis I~~	~~3~~		
		MAT2120 Analysis I	**3**
MAT2143 ~~Group Theory and Applications~~	3	MAT2143 **Algebraic Structures**	**3**
~~MAT2343 Elements of Discrete Mathematics~~	~~3~~		
		MAT2348 Discrete Mathematics	**3**
~~CSI2114 Data Structures~~	~~3~~	**CSI2110 Data Structures and Algorithms**	**3**
~~CSI2910 Professional Practice in Computing~~	~~1~~		
~~One programming language laboratory chosen in two different groups (excluding CSI2173).~~	~~2~~		
Fall:		**Fall:**	
MAT2371 Introduction to Probability	3	MAT2371 Introduction to Probability	3
CSI2111 Computer Architecture	3	CSI2111 Computer Architecture	3
CSI3105 Design and Analysis of Algorithms I	3	CSI3105 Design and Analysis of Algorithms I	3

Winter:	
MAT2375 Introduction to Statistics	3
MAT3380 Introduction to Numerical Methods	3
CSI2121 Principles of Assembly Language Programming	3
CSI2131 File Management	3
~~One programming language laboratory chosen in two different groups (excluding CSI2173).~~	~~2~~
Fall:	
CSI3125 Concepts of Programming Languages	4
CSI3317 Database Management Systems	3
~~SEG2100~~ Introduction to Software Engineering	3
Winter:	
CSI3310 Operating System Principles	3
CSI4101 Theory of Computability	3
or	
CSI4150 Introduction to Numerical Optimization Methods	3
Additional requirements	15
Three credits from:	
MAT3121 Complex Analysis I	3
~~MAT3125 Mathematical Analysis II~~	~~3~~
MAT3130 Introduction to Dynamical Systems	3
MAT3141 Honours Linear Algebra II	3
MAT3143 Ring Theory ~~and Applications~~	3
Six credits from:	
MAT3153 Introduction to Topology	3
MAT3172 Probability II	3
MAT3175 Introduction to Mathematical Statistics	3
~~MAT3344 Discrete Mathematics~~	~~3~~
MAT3361 Introduction to Mathematical Logic	3
MAT3375 Regression Analysis	3
~~MAT3376 Analysis of Variance~~	~~3~~
MAT3377 Sampling and Surveys	3
Six credits of MAT at the 4000 level or from MAT3121, ~~3125~~, 3130, 3141, 3143 not used to satisfy the previous requirements.	6
Nine credits from the Faculties of Arts, Education, Law, Social Science or the School of Management.	9

Winter:	
MAT2375 Introduction to Statistics	3
MAT3380 Introduction to Numerical Methods	3
CSI2121 Principles of Assembly Language Programming	3
CSI2131 File Management	3
Fall:	
CSI3125 Concepts of Programming Languages	4
CSI3317 Database Management Systems	3
SEG2105 Introduction to Software Engineering	3
Winter:	
CSI3310 Operating System Principles	3
CSI4101 Theory of Computability	3
or	
CSI4150 Introduction to Numerical Optimization Methods	3
Additional requirements	15
Three credits from:	
MAT3121 Complex Analysis I	3
MAT3120 Analysis III	**3**
MAT3130 Introduction to Dynamical Systems	3
MAT3141 **Linear Algebra II**	**3**
MAT3143 **Ring Theory**	**3**
Six credits from:	
MAT3153 Introduction to Topology	3
MAT3172 Probability II	3
MAT3175 Introduction to Mathematical Statistics	3
MAT3361 Introduction to Mathematical Logic	3
MAT3375 Regression Analysis	3
MAT3378 Analysis of experimental designs	**3**
MAT3377 Sampling and Surveys	3
Six credits of MAT at the 4000 level or from MAT3121, **3120**, 3130, 3141, 3143 not used to satisfy the previous requirements.	6
Nine credits from the Faculties of Arts, Education, Law, Social Science or the School of Management.	9