

<b>Honours in Mathematics (120 credits)</b>	<b>Honours in Mathematics (111 credits) Program abolished</b>
<b>Requirements 2003-2005</b>	<b>New course codes 2006</b>
Compulsory first-year credits <span style="float: right;">32</span> Suggested course stream for full-time students	Compulsory first-year credits <span style="float: right;">30</span> Suggested course stream for full-time students
<b>Fall:</b>	<b>Fall:</b>
<del>ITH220</del> Introduction to Computer Science I <span style="float: right;">-3</span>	<b>ITI1120</b> Introduction to Computer Science I <span style="float: right;">3</span>
MAT1320 Calculus I <span style="float: right;">3</span>	MAT1320 Calculus I <span style="float: right;">3</span>
MAT1341 Introduction to Linear Algebra <span style="float: right;">3</span>	MAT1341 Introduction to Linear Algebra <span style="float: right;">3</span>
<del>PHY1101</del> Fundamentals of Physics I <span style="float: right;">3</span>	<b>PHY1121</b> Fundamentals of Physics I <span style="float: right;">3</span>
or	or
<del>PHY1301</del> Principles of Physics I <span style="float: right;">3</span>	<b>PHY1321</b> Principles of Physics I <span style="float: right;">3</span>
Three credits from the Faculties of Science or Engineering <span style="float: right;">3</span>	Three credits from the Faculties of Science or Engineering <span style="float: right;">3</span>
<b>Winter:</b>	<b>Winter:</b>
<del>ITH224</del> Introduction to Computer Science II <span style="float: right;">3</span>	<b>ITI1121</b> Introduction to Computer Science II <span style="float: right;">3</span>
ENG1100 Workshop in Essay Writing <span style="float: right;">3</span>	ENG1100 Workshop in Essay Writing <span style="float: right;">3</span>
MAT1322 Calculus II <span style="float: right;">3</span>	MAT1322 Calculus II <span style="float: right;">3</span>
<del>PHY1102</del> Fundamentals of Physics II <span style="float: right;">3</span>	<b>PHY1122</b> Fundamentals of Physics II <span style="float: right;">3</span>
or	or
<del>PHY1302</del> Principles of Physics II <span style="float: right;">3</span>	<b>PHY1322</b> Principles of Physics II <span style="float: right;">3</span>
Three credits from the Faculties of Science or Engineering <span style="float: right;">3</span>	Three credits from the Faculties of Science or Engineering <span style="float: right;">3</span>
Compulsory second-year credits <span style="float: right;">29</span>	Compulsory second-year credits <span style="float: right;">21</span>
<b>Fall:</b>	<b>Fall:</b>
<del>CSI2114</del> Data Structures <span style="float: right;">3</span>	<b>CSI2110</b> Data Structures and Algorithms <span style="float: right;">3</span>
<del>MAT2122</del> Calculus II <span style="float: right;">3</span>	
MAT2141 Honours Linear Algebra I <span style="float: right;">3</span>	MAT2141 <b>Linear Algebra I</b> <span style="float: right;">3</span>
MAT2371 Introduction to Probability <span style="float: right;">3</span>	MAT2371 Introduction to Probability <span style="float: right;">3</span>
MAT2324 Ordinary Differential Equation and Laplace Transformation <span style="float: right;">3</span>	MAT2324 Ordinary Differential Equation and Laplace Transformation <span style="float: right;">3</span>
or	or
<del>MAT2331</del> Ordinary Differential Equations and Numerical Methods <span style="float: right;">4</span>	<b>MAT2384</b> Ordinary Differential Equations and Numerical Methods <span style="float: right;">3</span>
<b>Winter:</b>	<b>Winter:</b>
<del>CSI2165</del> Prolog Concepts Laboratory <span style="float: right;">2</span>	
or	
<del>CSI2172</del> C++ Concepts Laboratory <span style="float: right;">2</span>	
or	
<del>CSI2173</del> Java Concepts Laboratory <span style="float: right;">2</span>	
MAT2375 Introduction to Statistics <span style="float: right;">3</span>	MAT2375 Introduction to Statistics <span style="float: right;">3</span>
<del>MAT2125</del> Mathematical Analysis I <span style="float: right;">3</span>	
MAT2143 Group Theory and Applications <span style="float: right;">3</span>	MAT2143 <b>Algebraic Structures</b> <span style="float: right;">3</span>
Three credits from the Faculties of Science or Engineering <span style="float: right;">3</span>	Three credits from the Faculties of Science or Engineering <span style="float: right;">3</span>
Third and fourth-year credits <span style="float: right;">59</span>	Third and fourth-year credits <span style="float: right;">60</span>
Twenty-one credits from: <span style="float: right;">21</span>	Twenty-one credits from: <span style="float: right;">21</span>
<b>Fall:</b>	<b>Fall:</b>

MAT2355 Introduction to Geometry	3	MAT2355 Introduction to Geometry	3
MAT3121 Complex Analysis I	3	MAT3121 Complex Analysis I	3
<del>MAT3125 Mathematical Analysis II</del>	<del>3</del>	<b>MAT3120 Analysis III</b>	<b>3</b>
MAT3141 <del>Honours</del> Linear Algebra II	3	MAT3141 <b>Linear Algebra II</b>	<b>3</b>
MAT3153 Introduction to Topology	3	MAT3153 Introduction to Topology	3
MAT3175 Introduction to Mathematical Statistics	3	MAT3175 Introduction to Mathematical Statistics	3
MAT3341 Applied Linear Algebra	3	MAT3341 Applied Linear Algebra	3
MAT3343 Applied Algebra	3	MAT3343 Applied Algebra	3
<del>MAT3344 Discrete Mathematics</del>	<del>3</del>		
MAT3361 Introduction to Mathematical Logic	3	MAT3361 Introduction to Mathematical Logic	3
<b>Winter:</b>		<b>Winter:</b>	
<del>MAT2343 Elements of Discrete Mathematics</del>	<del>3</del>		
MAT3130 Introduction to Dynamical Systems	3	MAT3130 Introduction to Dynamical Systems	3
<del>MAT3143 Ring Theory and Applications</del>	<del>3</del>	MAT3143 <b>Ring Theory</b>	<b>3</b>
MAT3166 Introduction to Number Theory	3	MAT3166 Introduction to Number Theory	3
MAT3172 Probability II	3	MAT3172 Probability II	3
<del>MAT3376 Analysis of Variance</del>	<del>3</del>	<b>MAT3378 Analysis of experimental designs</b>	<b>3</b>
MAT3377 Sampling and Surveys	3	MAT3377 Sampling and Surveys	3
MAT3380 Introduction to Numerical Methods	3	MAT3380 Introduction to Numerical Methods	3
Eleven credits of science or engineering at the 2000 level or above.	11	Twelve credits of science or engineering at the 2000 level or above.	<b>12</b>
Six MAT credits at the 3000 level or above	6	Six MAT credits at the 3000 level or above	6
Twelve credits of MAT at the 4000 level or from MAT3121, 3125, 3130, 3141, 3143 not used to satisfy the previous requirements.	12	Twelve credits of MAT at the 4000 level or from MAT3121, 3130, 3141, 3143 not used to satisfy the previous requirements.	12
Nine credits from the Faculties of Arts, Education, Law, Social Science or the School of Management.	9	Nine credits from the Faculties of Arts, Education, Law, Social Science or the School of Management.	9