



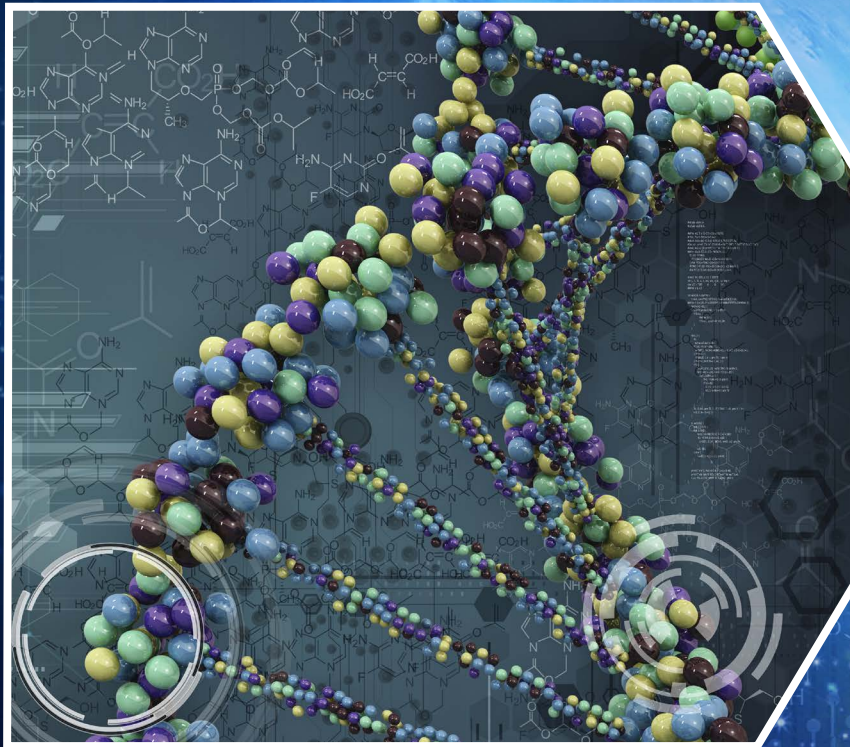
NUI Galway
OÉ Gaillimh

College of Science

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BSc MATHEMATICAL SCIENCE



www.nuigalway.ie/science

Overview

Year 1	Year 2	Year 3	Year 4
[60 Credits]	[60 credits]	[60 credits]	[60 credits]
<p>There are 45 credits of Core modules.</p> <p>Choose one module to a value of 15 credits:</p> <ul style="list-style-type: none"> Biology Chemistry: The World of the Molecule Physics 	<p>There are 30 credits of Core modules.</p> <p>Choose a minimum of 10 credits of Core Option modules:</p> <ul style="list-style-type: none"> MA2286: Differential Forms and MA2287: Complex Analysis or MP231: Mathematical Methods I and MP232: Mathematical Methods II <p>Students must take [MA2286 and MA2287] or [MP231 and MP232], but are encouraged to take all 4 modules.</p> <p>Choose 1 Pathway or Electives to a total value of 10 or 20 Credits (depending on value of Core Option modules taken above).</p>	<p>Choose a minimum of 40 Credits from the Core Options list.</p> <p>Choose a maximum of 20 Credits from the Electives list.</p>	<p>Choose one project module to a value of 10 Credits:</p> <ul style="list-style-type: none"> Applied Mathematics Project Mathematics Project <p>Choose a minimum of 30 Credits from the Core Options list.</p> <p>Choose a maximum of 20 Credits from the Electives list.</p>
<p>Module Descriptors for Years 1 to 4 are available at: http://www.nuigalway.ie/science/undergraduate-courses/mathematical-science.html#course_outline</p>			

BSc Mathematical Science

Year 1	Year 2	Year 3	Year 4
[Core: 45 credits; Electives: 15 credits]	[Core: 30 credits; Core options: 10 or 20 credits; Electives: 10 or 20 credits]	[Core options: minimum of 40 credits; Electives: maximum of 20 credits]	[Project: 10 credits; Core options: min of 30 credits; Electives: max of 20 credits]
<p><i>Full Year – Semester 1 and Semester 2</i></p> <p>MP180 Applied Mathematics [15]</p> <p>MA180 Mathematics (Honours) [15]</p> <p><u>Semester 1</u></p> <p>CS103 Computer Science [5]</p> <p>ST1111 Probability Models [5]</p> <p>-----</p> <p><u>Semester 2</u></p> <p>ST1112 Statistical Methods [5]</p>	<p><u>Semester 1</u></p> <p>MA2286 Differential Forms [5]*</p> <p>MA284 Discrete Mathematics [5]</p> <p>MP231 Mathematical Methods I [5]*</p> <p>MP236 Mechanics I [5]</p> <p>ST2003 Random Variables [5]</p> <p>-----</p> <p><u>Semester 2</u></p> <p>MA283 Linear Algebra [5]</p> <p>MA2287 Complex Analysis [5]*</p> <p>MP237 Mechanics II [5]</p> <p>• Written Paper</p> <p>MP232 Mathematical Methods II [5]*</p> <p>ST2004 Statistical Inference [5]</p> <p>• Written Paper</p>	<p><u>Semester 1</u></p> <p>ST313 Applied Regression Models [5]*</p> <p>MP366 Electromagnetism [5]^</p> <p>MA3101 Euclidean and Non-Euclidean Geometry [5]*</p> <p>MA3343 Groups [5]*</p> <p>MP345 Mathematical Methods I [5]*</p> <p>MA341 Metric Spaces [5]*</p> <p>MA385 Numerical Analysis I [5]*</p> <p>MP494 Partial Differential Equations [5]^</p> <p>-----</p> <p><u>Semester 2</u></p> <p>MA3491 Fields and Applications [5]*</p> <p>MP365 Fluid Mechanics [5]^</p> <p>MP346 Mathematical Methods II [5]*</p> <p>MP491 Non Linear Systems [5]*</p> <p>MA378 Numerical Analysis II [5]*</p> <p>ST413 Statistical Modelling [5]^</p> <p>MA342 Topology [5]*</p>	<p><i>Full Year – Semester 1 and Semester 2</i></p> <p>MA430 Mathematics Project [10]</p> <p>MP420 Applied Mathematics Project [10]</p> <p><u>Semester 1</u></p> <p>MP403 Cosmology and General Relativity [5]*</p> <p>MP366 Electromagnetism [5]^</p> <p>MA3101 Euclidean and Non-Euclidean Geometry [5]*</p> <p>ST417 Introduction to Bayesian Modelling [5]*</p> <p>MA490 Measure Theory [5]*</p> <p>MP305 Modelling I [5]*</p> <p>MA385 Numerical Analysis I [5]*</p> <p>MP494 Partial Differential Equations [5]^</p> <p>MA416 Rings [5]*</p> <p><u>Semester 2</u></p> <p>MP3491 Fields and Applications [5]*</p> <p>MP365 Fluid Mechanics [5]^</p> <p>MA482 Functional Analysis [5]*</p> <p>MP307 Modelling II [5]*</p> <p>MA378 Numerical Analysis II [5]*</p> <p>ST413 Statistical Modelling [5]^</p>
	* Select a minimum of two 5-credit modules	* Select a minimum of eight 5-credit modules. ^ These modules run on a two-year cycle. Alternative modules are offered next academic year.	* Select one project and a minimum of six 5-credit modules ^ These modules run on a two-year cycle. Alternative modules are offered next academic year.

Module Descriptors for Years 1 to 4 are available at: http://www.nuigalway.ie/science/undergraduate-courses/mathematical-science.html#course_outline

	<p>CHEMISTRY PATHWAY 20 credits</p> <p><u>Semester 1</u></p> <p>CH204 Inorganic Chemistry [5]</p> <p>CH203 Physical Chemistry [5]</p> <p>-----</p> <p><u>Semester 2</u></p> <p>CH205 Analytical and Environmental Chemistry [5]</p> <p>CH202 Organic Chemistry [5]</p> <p>COMPUTING PATHWAY 20 credits</p> <p><u>Semester 1</u></p> <p>CT2101 Object Oriented Programming I [5]</p> <p>CS2101 Programming for Science and Finance [5]</p> <p>-----</p> <p><u>Semester 2</u></p> <p>CT2102 Object Oriented Programming II [5]</p> <p>CS211 Programming and Operating Systems [5]</p> <p>PHYSICS AND APPLIED PHYSICS PATHWAY 20 credits</p> <p><u>Semester 1</u></p> <p>PH2101 Mechanics and Electromagnetism [5]</p> <p>PH2102 Physics Laboratory and Problem Solving I [5]</p> <p>-----</p> <p><u>Semester 2</u></p> <p>PH2103 Thermodynamics & Atomic Physics [5]</p> <p>PH2104 Physics Laboratory and Problem Solving II [5]</p>		
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